ORDER

3400.3H

AIRWAY FACILITIES MAINTENANCE PERSONNEL CERTIFICATION PROGRAM

3/05/02

U.S. DEPARTMENT OF TRANSPORTATION

FEDERAL AVIATION ADMINISTRATION

Distribution: A-W(except AF)-2; A-W(AF)-3; A-X(AF)-3;
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Initiated By: AFZ-100

RECORD OF CHANGES

DIRECTIVE NO. 3400.3H

CHANGE TO BASIC	SUPPLEMENTS			OPTIONAL	CHANGE TO BASIC	SUPPLEMENTS			OPTIONAL

FAA FORM 1320-5 (6-80) USE PREVIOUS EDITION

FOREWORD

This order prescribes the procedures and assigns responsibility for administration of the Airway Facilities Maintenance Personnel Certification Program that assures the technical proficiency of personnel who are engaged in the certification of systems and facilities used in the National Airspace System (NAS). This order ensures that technical personnel responsible for maintenance and certification on facilities used in the NAS are proficient in performing assigned duties.

Certification of NAS systems and services is an inherently Government function. Through the Airway Facilities Maintenance Personnel Certification Program, the Federal Aviation Administration (FAA) grants certification credentials to individuals who have attained a professional level, and are responsible for the operation and performance of air traffic control facilities used by the aviation community. The personnel certification process is a confirmation that the individual possesses the requisite knowledge and skills to assume full responsibility for attesting to the operational status of a particular system, subsystem, equipment or service. This level of achievement is demonstrated by acquisition of certification authority and responsibility as defined herein.

Alan R. Moore
Director of Airway Facilities

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CHAPTER 1. GENERAL

1. PURPOSE.

This order specifies the procedures necessary to implement and sustain a uniform national personnel certification program for Federal Aviation Administration (FAA) maintenance personnel and a verification program for non-Federal personnel.

2. DISTRIBUTION.

This order is distributed to division level in Washington headquarters; to branch level at the FAA Logistics Center; to branch level at the FAA Academy; to division level within ATC Engineering and Test, CNS Engineering and Test, Facilities Management, Aviation Simulation and Human Factors divisions at the FAA Technical Center; to branch level in the regional Airway Facilities divisions; and to all Airway Facilities field offices with a maximum distribution.

3. CANCELLATION.

Order 3400.3 G, Airway Facilities Maintenance Personnel Certification Program, dated April 13, 1998, is canceled.

4. BACKGROUND.

The National Airspace System (NAS) comprises a mixture of system, subsystem, equipment or services that support the air transportation complex in the United States. In order to validate the continued operation of the NAS, the performance of these system, subsystem, equipment or services are periodically certified by FAA technical personnel possessing the necessary technical proficiency. The Airway Facilities (AF) Maintenance Personnel Certification Program establishes a minimum standard of technical proficiency and assures technical competency of personnel. The guidelines in this order provide national direction for the acquisition and retention of personnel certification, not equipment certification. The technical specialist must satisfy theory-of-operations, on-the-job-training (OJT), and performance criteria as specified in this order to meet FAA requirements for certification. Following successful completion of the certification authority requirements, the FAA technical specialist may be assigned the responsibility of certifying specific system, subsystem, equipment or services. A technical specialist may exercise certification authority only when qualified and assigned certification responsibility.

5. EXPLANATION OF CHANGES.

This revision:

a. Establishes and identifies Operations Control Center (OCC) personnel certification functions.

b. Clarifies roles and responsibilities of SMO/OCC Managers in administration of the personnel certification program.

c. Establishes new types of certification authority for Remote Certifications (Remote Regular and Remote Interim).

d. Updates FAA Form 3400-3, AF Personnel Certification/Verification Authority and Related Training Record, to include formal OJT documentation.

e. Adds a 120-day time window to the Mandatory Certification Date (MCD) process.

f. Clarifies that national performance exams are mandatory for non-certifiable equipment.

g. Emphasizes the formal OJT process throughout the order.

h. Removes Appendix 4, Personnel Certification Authority Acronyms, and refers users to FAA Order 6000.15, General Maintenance Handbook for Airway Facilities for current acronyms.

i. Removes Chapter 7 and incorporates the information into the appropriate paragraphs.

j. Adds a new Appendix 4, Figure 1, Airway Facilities Maintenance Personnel Certification Program On-The-Job-Training.

k. Adds Appendix 7, Record of Changes to Appendices 3 through 6.

6. FORMS.

Appendix 1, Listing of Forms, contains all of the forms used in this order. Forms for the Airway Facilities Maintenance Personnel Certification Program are available for downloading on the FAA Academy AF Training Bulletin Board. The instructions for accessing this bulletin board are found in Appendix 6, Instructions for Accessing the FAA Academy AF Training Bulletin Board. From the date of this order, all existing documentation will be retained as is. At the time of any new action, the procedures contained in this order are required for the documentation process.

7. DEFINITIONS.

Definitions of some of the terms used in the certification program may be found in the latest version of Order 6000.15. For the purpose of this order, the following definitions are used:

a. **Annually.** A scheduling term meaning once every year within an 11 to 13 month interval.

b. **Certification Authority Requirements Agreements.** A written acknowledgment signed by FAA management and FAA employees listing certification requirements of the technical position and a specific time frame during which the employees must acquire the needed certifications.

c. **Certification/Verification Authority.** Substantiation that an individual possesses the minimum technical knowledge and proficiency to determine if a system, subsystem, equipment or

service is capable of providing the advertised services to the user and the ability to correct malfunctions. For the purpose of this order, the terms "certification" and "verification" are synonymous for FAA technical specialists and non-Federal technicians. The term "certification" applies in the same manner to FAA personnel maintaining FAA facilities as the term "verification" applies to non-Federal personnel maintaining non-Federal facilities.

d. **Certification Record Files.** Files containing information from FAA Form 3400-3, Certification Authority; FAA Form 3400-5, Certification Responsibility; FAA Form 3400-6, Certification Authority Requirements Agreement and FAA Form 3400-15, Performance Examination Cover Sheet.

e. **Certification Responsibility.** The assignment of accountability for the determination of the operational status of a specific system, subsystem, equipment or service and the documentation into the official facility maintenance log.

f. **Certification Authority Record.** FAA Form 3400-3.

g. **Domain.** A geographical area, as well as the systems and services for which an AF Control Center is responsible.

h. **Examiner.** An individual designated in writing to monitor and/or conduct examinations.

i. **First-Line Supervisors.** An employee or designated individual whose primary responsibility includes the technical direction and/or supervision of personnel performing maintenance on and certification of NAS facilities.

j. **Formal OJT.** A bridge from theory-of-operations of system/subsystem/equipment or service training to developing requisite skills and knowledge in preparation for taking a performance examination to acquire certification authority.

k. **Informal Training.** Training that has not been approved by the Training Division.

l. **Interim Certification Authority.** Certification authority granted to cover system, subsystem, equipment or services pending establishment of a mandatory certification date or when theory-of-operations are no longer available.

m. **Mandatory Certification Date.** The date from which no new or existing Interim certification authority may be used and existing Interim certification authority must be revoked on a specific type system, subsystem, equipment or service. This date shall be as specified in this order or in subsequent changes to this order. The date is predicated upon the availability of both formal theory-of-operations training and performance examinations approved by the Training Division. The date shall be established 120 days from the date the performance examination was posted on the FAA Academy AF Training Bulletin Board, provided it meets the requirements of this paragraph.

n. **Non-Federal Technician.** A technical person employed by a non-Federal sponsor to maintain and verify a non-Federal facility.

o. **Non-Federal Facility.** Public use facilities not owned by the U. S. Government that have been approved for Instrument Flight Rules (IFR) in the NAS.

p. **Non-Federal Sponsor.** The owner of a non-Federal facility. Reference the latest edition of Order 6700.20, Non-Federal Navigational Aids and Air Traffic Control Facilities.

q. **Personnel Certification.** Confirmation that the individual possesses the requisite minimum knowledge and skills to determine the operational status of a system, subsystem, equipment or service.

r. **Performance Examination.** An examination designed to test the technical specialist's proficiency in measuring, evaluating, testing, and determining the accuracy and suitability of a particular type system, subsystem, equipment or service.

s. **Proctor.** An individual designated in writing to monitor theory-of-operations examinations.

t. **Remote Certification Authority.** Certification authority is granted to technical specialists who are responsible for accomplishing remote certifications through the use of RMM equipment and capabilities.

u. **Service.** Service is the end product resulting from a specific combination of system(s), subsystem(s), and/or equipment, delivered to a user (internal or external to the FAA) of the NAS.

v. **Service Certification.** The determination, validation, and documentation that a specific combination of system(s), subsystem(s), and/or equipment is providing or is capable of providing the advertised service to the user. The certifying specialist uses personal knowledge, technical analysis, observations, and inputs from other certified personnel to formulate a determination and accomplish service certification.

w. **System, Subsystem, and Equipment Certification.** The technical confirmation performed prior to commissioning and/or restoration after a scheduled or unscheduled interruption affecting certification parameters and periodically thereafter in accordance with applicable maintenance technical handbooks. The certification entry validates and documents that the system, subsystem, and/or equipment is providing or is capable of providing the advertised service to the user. It includes independent determination as to when a system, subsystem, equipment should be continued in, restored to, or removed from service.

x. **Technical Specialists.** A generic title that includes, but is not limited to, electronic technicians, airway transportation system specialists, engineering technicians, maintenance mechanics, environmental support technicians, engineers, and non-Federal technicians.

y. **Temporary Certification.** Certification authority granted for limited periods of time as required by unusual circumstances.

z. **Theory-of-Operations Examination.** An examination to verify that a technical specialist possesses the necessary knowledge of principles and theory-of-operations for a system/ subsystem/equipment or service. Successful completion of this examination indicates a knowledge level equivalent to that of a graduate of an appropriate formal training course.

aa. **Training Record File.** Files containing training and examination (theory-of-operations, OJT, and performance) information.

8. OBJECTIVES.

The objectives of the AF Maintenance Personnel Certification Program are to:

a. Technical Competence. Assure technical competence of all technical personnel having direct responsibility for the continued safe operation of system, subsystem, equipment or services critical to the NAS.

b. Measurement Standards. Establish uniform minimum standards for measuring an individual's technical proficiency.

c. Document Proficiency. Establish procedures for documenting the individual's technical proficiency, for granting certification authority, and for assigning system, subsystem, equipment or service certification responsibility to FAA technical specialists.

9-19. RESERVED.

CHAPTER 2. PROGRAM ADMINISTRATION RESPONSIBILITIES

20. FAA AIRWAY FACILITIES TRAINING DIVISION FUNCTIONS.

The Training Division's responsibilities in the administration of the personnel certification program are to:

a. Provide overall direction and guidance.

b. Evaluate all aspects of the program.

c. Standardize all aspects of the program.

d. Review and update AF personnel certification policy and supporting orders.

e. Identify and specify the process and requirements for personnel certification.

f. Initiate and coordinate the development and validation of all performance examinations.

g. Require that contractors provide performance examinations for new equipment coming on-line.

h. Identify personnel certification requirements that support the system, subsystem equipment or services in the NAS.

i. Verify and coordinate the availability of training and examinations to support the personnel certification program.

j. Coordinate the personnel certification program with all related programs.

k. Maintain and update Appendix 1, Listing of Forms, and Appendix 2, Automation Data Fields.

21. FAA ACADEMY AF DIVISION FUNCTIONS.

The AF Division's responsibilities in the administration of the personnel certification program are to:

a. Develop, revise, and validate theory-of-operations examinations.

b. Issue and grade theory-of-operations examinations.

c. Maintain appropriate records of examinations.

d. Distribute performance examinations and applicable changes.

e. Coordinate the revision of all existing performance examinations.

f. Develop supportive training material as directed.

g. Develop, administer, and maintain instructional training programs to support the personnel certification program.

h. Maintain and update appendices 3 through 7 of this order via the FAA Academy AF Training Bulletin Board.

22. REGIONAL AF DIVISION FUNCTIONS.

The regional AF Division Manager's responsibilities for the personnel certification program are to exercise regional control of the program described in this order and issue any necessary supplemental or clarifying instructions. Functions which may be delegated to a designated representative within the regional office, to the AF System Management Office (SMO) Manager, or Operations Control Center Manager (OCC) are as follows:

a. Approve requests for theory-of-operations, OJT, and performance examinations for FAA personnel other than SMO/OCC personnel.

b. Approve requests for theory-of-operations, OJT, and performance examinations from sponsors of non-Federal facilities.

c. Coordinate with other agency offices on matters pertaining to the certification of individuals.

23. AF SYSTEM MANAGEMENT OFFICE (SMO) FUNCTIONS.

The prime responsibility for the administration of the personnel certification and verification programs in the field, rests within the SMO organization.

a. Functions which shall not be delegated below the SMO Manager level or anyone acting in that capacity are:

(1) Making the final determination whether technical specialists have demonstrated the minimum acceptable level of technical proficiency to perform actual duties.

(2) Granting, withholding, or revoking certification authority to FAA technical specialists, verification authority to non-Federal technicians, and/or assigning responsibility, shall be in writing.

(3) Taking action when a technical specialist fails to acquire or maintain the certification authority required for the position occupied.

(4) Determining certification requirements for all technical specialists maintaining NAS equipment within the SMO.

(5) Identifying positions that require certification authority.

(6) Designating, in writing, all examination officials and formal OJT instructors.

(7) Executing certification authority requirements agreements.

(8) Validating an annual review of individual certification proficiency and records.

b. Functions which may be delegated below the SMO Manager level are:

(1) Prescribing the extent of individual preparation necessary for examination or reexamination.

(2) Requesting, scheduling, administering theory-of-operations, OJT, and performance examinations.

(3) Exercising proper security precautions to avoid compromise of theory-of-operations examinations.

(4) Maintaining a file containing personnel certification or verification records on each individual requiring authority. The official certification/verification record file shall be maintained at the SMO in accordance with the latest edition of Order 1350.15, Records, Organization, Transfer, and Destruction Standards.

(5) Assuring that individuals assigned certification responsibilities have properly documented authorizations.

24. OPERATIONS CONTROL CENTER (OCC) FUNCTIONS.

The OCC Manager has the prime responsibility for the administration of the personnel certification program for OCC personnel. The OCC has been designated as a focal point for monitoring, control, and remote certification of all system, subsystem, equipment, or services in the NAS that have RMM capabilities.

a. Functions which shall not be delegated below the OCC Manager level or anyone acting in that capacity are:

(1) Granting certification authority and assigning certification responsibility to OCC technical specialists for OCC facilities identified in their cost center's FSEP.

(2) Granting remote certification authority to OCC technical specialist for facilities within their domain.

(3) Assigning remote certification responsibility to OCC technical specialists for facilities within their domain. This responsibility assignment must be coordinated and documented in writing with the appropriate SMO Manager.

(4) Making the final determination whether OCC technical specialists have demonstrated the minimum acceptable level of technical competency to perform actual duties.

(4) Granting, withholding, or revoking certification authority to OCC technical specialists shall be in writing when the determination has been made.

(5) Taking action when an OCC technical specialist fails to acquire or maintain the certification authority required for the position occupied.

(6) Determining certification requirements for OCC technical specialists.

(7) Identifying OCC positions that require certification authority.

(8) Designating, in writing, all examination officials and formal OJT instructors.

(10) Executing certification authority requirement agreements.

(11) Validating an annual review of individual certification proficiency and records.

b. Functions which may be delegated below the OCC manager level are:

(1) Prescribing the extent of individual preparation necessary for examination or reexamination.

(2) Requesting, scheduling, administering theory-of-operations, OJT, and performance examinations.

(3) Exercising proper security precautions to avoid compromise of theory-of-operations examinations.

(4) Maintaining a file containing personnel certification records on each individual requiring authority. The official certification record file shall be maintained at the OCC in accordance with the latest edition of Order 1350.15, Records, Organization, Transfer, and Destruction Standards.

(5) Assuring that individuals assigned certification responsibilities have properly documented authorizations.

25-29. RESERVED.

CHAPTER 3. CERTIFICATION PROCESS

30. GENERAL.

AF personnel certification is a two-phased process and consists of an authority and a responsibility phase. Personnel certification requirements are derived from the systems, subsystems, and services requiring certification. Acronyms for documenting personnel certifications are listed in the latest version of Order 6000.15, Appendix 3, Systems, Subsystems, and Services Requiring Certification.

a. Certification Authority. The certification authority phase measures the technical specialist's ability and knowledge of equipment theory-of-operations and requires a practical demonstration of skills by the administration of a performance examination by an appointed examiner. This phase ensures that technical specialists possess the minimum skills necessary to certify a given-type system, subsystem, equipment or service. Certification authority shall be documented on FAA Form 3400-3.

b. Certification Responsibility. The certification responsibility phase is the official assignment of a system, subsystem, equipment or service to a technical specialist in writing. After signatures of the technical specialist, the first-line supervisor, and the SMO/OCC Manager are recorded on FAA Form 3400-5, the specialist can exercise certification authority to certify a specific system, subsystem, equipment or service in the NAS.

31. INDIVIDUALS REQUIRING CERTIFICATION AUTHORITY.

Individuals required to hold certification authority for system, subsystem, equipment or services are identified below:

a. All FAA technical specialists assigned responsibility for certification of system, subsystem, equipment or services. SMO/OCC Managers shall establish position requirements based on operational needs.

b. Performance examiners.

c. Other FAA personnel as required by duties or administrative determinations.

32. CERTIFICATION AUTHORITY PHASE.

The certification authority phase involves the satisfactory completion of theory-of-operations, formal OJT, and performance requirements as specified in this directive on a specific type of system, subsystem, equipment or service and documented on FAA Form 3400-3.

a. Certification Authority. Acquisition of certification authority is a four-step process that requires:

(1) Completion of theory-of-operations.

(2) Completion of formal OJT.

(3) A demonstration of performance proficiency.

(4) A review and determination by the SMO/OCC Manager that all procedures have been properly followed and supporting documentation has been prepared.

b. Theory-of-Operations Requirement. The theory-of-operations requirement is the first step of the personnel certification authority process and confirms that the individual possesses satisfactory knowledge of system, subsystem, equipment theory-of-operations or the integration of components that comprise a service. There are several methods listed below by which this may be accomplished. The method used will be determined by the SMO/OCC Manager and the employee's supervisor. This training shall be applicable to the type of system, subsystem, equipment or service for which the certification authority is required.

(1) Resident training is training conducted at the FAA Academy by an FAA instructor, a designated out-of agency trainer, or via Computer Based Instruction (CBI).

(2) Theory-of-operations examination is a Training Division/FAA Academy approved written examination which measures the level of knowledge required by paragraph 32a(1).

(3) Distance Learning (DL) is using a training methodology where an instructor is not required to be collocated with the student. DL is a Training Division/FAA Academy approved method and includes but is not limited to correspondence study, CBI, and Interactive Video Teletraining (IVT).

(4) Equivalent training is training obtained from sources other than the FAA which the Training Division/FAA Academy deems to be equivalent to FAA-sponsored resident training. Requests for acceptance of this training must be recommended by the SMO/OCC Manager and forwarded through the regional AF Division Manager to the Training Division/FAA Academy for review and approval. New equivalency data, or changes, will be updated in Appendix 3 and posted on the FAA Academy AF Training Bulletin Board.

c. Formal OJT Requirements. The second step of the personnel certification authority process is formal OJT, which is a bridge from theory-of-operations of system, subsystem, equipment or service training to developing requisite skills and knowledge in preparation for taking a performance examination to acquire certification authority or the granting of Interim Certification Authority. FAA Forms 3400-15 and 3400-3 shall be used to document the completion of OJT requirements. A list of formal OJT is provided in Appendix 4, Figure 1. The OJT phase of the personnel certification process shall be administered in accordance with the latest version of Order 3000.10, Airway Facilities Maintenance Technical Training Program

d. Performance Requirements. The third step of the personnel certification authority process requires successful demonstration of performance proficiency measured by a combination of successful accomplishment of work assignments and passing a performance examination. Following administration of a performance examination, the examiner will submit the original examination to the SMO/OCC Manager. Successful completion confirms the technical specialist's familiarity with a specific type of system, subsystem, equipment or service as well as their knowledge and ability to perform necessary measurements, adjustments, and fault diagnosis, or to make software corrections where applicable. This step shall not occur before confirmation that the theory-of-operations and OJT requirements have been successfully completed. The methods by which performance proficiency may be accomplished are listed below. The method used will be determined by the SMO/OCC Manager and the employee's supervisor.

(1) Experience. For experience to be creditable, the individual must have received at a minimum, prior to the mandatory certification date, a satisfactory performance rating for a 12-month period during which the individual had Interim certification authority and assigned responsibility on the system, subsystem, equipment, or service for which certification authority is sought. The first-line supervisor shall document the time period during which the experience was gained. This documentation and the time period shall be recorded in the individual's training and certification record when approved. Experience gained prior to satisfying the theory-of-operations requirements on the subject is creditable. Failure to satisfy the theory-of-operations requirements means credit for prior experience cannot be granted.

(2) Performance Examinations. After the mandatory certification date, the technical specialist must satisfactorily complete a Training Division approved performance examination conducted by an authorized examiner. The examination measures the specialist's ability to make system, subsystem, or equipment adjustments, check critical parameters, and tests the requisite specialized knowledge to adequately investigate, analyze, test, and correct system, subsystem, equipment, or service deficiencies to restore and ensure continuous reliable operation. A separate performance examination is required on each different type of system, subsystem, equipment, or service for which the individual needs certification authority. FAA Form 3400-15, as illustrated in appendix 1, figure 6-1 shall be used to document this process.

e. Review and Confirmation. The fourth step in the personnel certification authority process is accomplished when the SMO/OCC Manager reviews the results of all testing, assures that all supporting documentation is correct, and determines that certification authority can be granted. Certification authority is granted with an entry on FAA Form 3400-3 signed by the SMO/OCC Manager. As part of this confirmation process, the SMO/OCC Manager will determine what type of certification authority to grant.

33. TYPES OF CERTIFICATION AUTHORITY.

The five possible types of certification authority are:

a. Regular Certification Authority. Regular certification authority on a system, subsystem, equipment or service may be granted to a technical specialist by the SMO/OCC Manager after satisfying the approved theory-of-operations, formal OJT, and performance requirements. The OCC Manager may grant Regular certification authority to OCC technical specialists for only those OCC facilities identified in their cost center's FSEP. Regular certification authority may be granted when all of the requirements for Interim certification conversion are met.

b. Interim Certification Authority. Between the installation of equipment and development of Training Division approved theory-of-operations, formal OJT, and performance examinations, Interim certification authority may be granted by the SMO Manager to employees who have successfully completed documented formal/informal training and formal OJT. The OCC Manager may grant Interim certification authority to OCC technical specialists for only those OCC facilities identified in their cost center's FSEP. When the Training Division has advised that no theory-of-operations methods listed in paragraph 32b are available (i.e. for older equipment), Interim certification authority may be granted to employees who have successfully completed documented informal training. For any Interim certification authority, the manager must consider the technical specialist sufficiently proficient to certify the type of system,

subsystem, equipment, or service for which the interim is issued. For purposes of Interim certification, informal training is that training conducted at the regional or SMO level by another technician or a manufacturer's representative, or another course on similar equipment taken previously. Interim certification authority based on informal training cannot be converted to Regular certification authority.

(1) Conversion of Interim Certification Authority. Interim certification authority may be converted to Regular certification authority on system, subsystem, equipment, or services provided:

(a) Technical specialist has met the requirements of paragraph 32a, and

(b) Technical specialist has been granted interim certification authority for 12 months and has at least 12 months of satisfactory performance while having full maintenance responsibility, and

(c) The Interim certification authority was granted before the mandatory certification date.

(2) Interim Certification Authority Not Converted. If an Interim certification authority was not converted after meeting all the requirements of paragraph 33b and the mandatory certification date was established, the Interim certification authority may be converted to Regular certification authority or the performance examination may be taken at the discretion of the SMO/OCC Manager.

(3) Revocation of Interim Certification Authority. Interim certification authority shall be revoked and fully documented on FAA Form 3400-3 when any of the following criteria are met:

(a) The mandatory certification date is reached.

(b) A technical specialist fails the formal training course, the theory-of-operations examination, or the performance examination that pertains to the specific Interim certification authority.

(c) Regular certification authority is granted on the same system, subsystem, equipment or service.

(d) Certification responsibility is no longer assigned.

c. Temporary Certification Authority.

(1) Temporary certification authority may be granted by the SMO/OCC Manager on a specific type of system, subsystem, equipment or service, after the mandatory certification date has passed, based upon an administrative determination of need. The OCC Manager may grant Temporary certification authority to technical specialists for only those OCC facilities identified in their cost center's FSEP. Temporary certification authority should only be granted during UNUSUAL circumstances; i.e., when there is an immediate need and the normal process would take too long. This authority may be granted for no longer than 3 months at a time and shall not

be granted to the same individual more than twice within any 12-month period on the same system, subsystem, equipment or service. The granting of such Temporary certification authority shall be formally and fully documented. The revocation date shall be identified on the FAA Form 3400-3 at the time this authority is granted. The SMO/OCC Manager shall be satisfied with the proficiency of the technical specialist. When granting Temporary certification authority to an individual who has not previously met applicable theory-of-operations requirements, training used in lieu of theory-of-operations requirements must be related.

> **EXAMPLE:** A technical specialist certified on a Mark 1B instrument landing system (ILS) may be granted Temporary certification authority for a Mark 1D ILS. On the other hand, training on communications equipment cannot be considered applicable to ILS.

(2) Temporary certification authority shall not be granted to technical specialists who, on the last attempt, failed either the theory-of-operations or performance options for the pertinent system, subsystem, equipment or service.

d. Remote Regular Certification Authority. Remote Regular certification authority on a system, subsystem, equipment or service may be granted to technical specialists who are responsible for accomplishing remote certifications through the use of RMM equipment and capabilities. It is intended for AF Control Center personnel, although other technical specialists may also be issued Remote Regular certification authorities when required by their position. In order to gain Remote Regular certification authority, the technical specialist must satisfy the approved remote theory-of-operations, formal OJT, and performance requirements.

e. Remote Interim Certification Authority. Remote Interim certification authority may be granted to technical specialists who are responsible for accomplishing remote certifications through the use of RMM equipment and capabilities. It is intended for AF Control Center personnel, although other technical specialists may also be issued Remote Interim certification authorities when required by their position. Between the installation of equipment and development of a Training Division approved theory-of-operations, formal OJT, and performance examinations, Remote Interim certification authority may be granted by the SMO/OCC Manager to employees who have successfully completed documented formal or informal training. When the Training Division has advised that no theory-of-operations methods listed in paragraph 32b are available (i.e. for older equipment), Remote Interim certification authority may be granted to employees who have successfully completed documented informal training. For any Remote Interim certification authority, the manager must consider the technical specialist sufficiently proficient to certify the type of system, subsystem, equipment or service for which the Remote Interim is issued. For purposes of Remote Interim certification, informal training is that training conducted at the regional or SMO/OCC level by another technician or a manufacturer's representative, or another course on similar equipment taken previously. Remote Interim certification authority based on informal training cannot be converted to Remote Regular certification authority.

(1) Conversion of Remote Interim Certification Authority. Remote Interim certification authority may be converted to Remote Regular certification authority on systems, subsystem, equipment or services provided:

(a) Technical specialist has met the requirements of paragraph 32a, and

(b) Technical specialist has been granted Remote Interim certification authority for 12 months and has at least 12 months of satisfactory performance while having remote maintenance responsibility, and

(c) The Remote Interim certification authority was granted before the mandatory certification date.

(2) Remote Interim Certification Authority Not Converted. If a Remote Interim certification authority was not converted after meeting all the requirements of paragraph 33e and the mandatory certification date was established, the Remote Interim certification authority may be converted to Remote Regular certification authority or the performance examination may be taken at the discretion of the SMO/OCC Manager.

(3) Revocation of Remote Interim Certification Authority. Remote Interim certification authority shall be revoked and fully documented on FAA Form 3400-3 when any of the following criteria are met:

(a) The mandatory certification date is reached.

(b) A technical specialist fails the formal training course, the theory-of-operations examination, or the performance examination that pertains to the specific Remote Interim certification authority.

(c) Remote Regular certification authority is granted on the same system, subsystem, equipment or service.

(d) Certification responsibility is no longer assigned.

34. SERVICE CERTIFICATION.

Service certification ensures that all system, subsystem, equipment or services are capable of providing their advertised services and have a current overall certification. The service-certifying official uses personal knowledge, technical determination, observations, and inputs from other certified personnel.

a. Granting Service Certification Authority. Authority shall be granted for all services identified in the latest version of Order 6000.15.

b. Documenting Service Certification Authority. Authority shall be documented on FAA Form 3400-3.

(1) Theory requirements shall be satisfied when a Training Division approved theory-of-operations training has been successfully completed on a major system type that makes up the service; i.e., localizer (LOC) training for ILS service.

(2) Performance requirements shall be based on Training Division approved performance examinations.

(3) Interim or Remote Interim certification authority may be granted when theory-of-operations and performance examinations are not available, provided conditions in paragraph 33b or 33e are met. The appropriate AF Control Center personnel may be granted Interim or

Remote Interim service certification authority in accordance with paragraph 32 pending the Training Division approval of theory-of-operations and performance examinations. This Interim or Remote Interim certification may not be converted to Regular or Remote Regular certification authority without meeting the requirements of paragraph 32a.

35. RETENTION/REVOCATION OF CERTIFICATION AUTHORITY.

a. Retention of Certification Authority. When an individual acquires certification authority for a specific type of system, subsystem, equipment or service, the certification authority is retained unless there is a change in status.

b. Revocation of Certification Authority. Certification authority shall be revoked only as a result of one of the circumstances described below:

(1) When the end date of the temporary certification authority period is reached.

(2) When there is a subsequent failure of formal training or examination pertinent to an Interim or Remote Interim certification authority.

(3) When Temporary, Interim, or Remote Interim certification authority is replaced by Regular or Remote Regular certification authority for the same system, subsystem, equipment or service.

(4) When it is determined by the SMO/OCC Manager that the proficiency (performance and/or knowledge of theory) of a technical specialist has deteriorated to a level such that continued certification of a system, subsystem, equipment or service might render it unusable or unsafe for use. The employee shall receive written notification within 24 hours of such action, and is required to promptly acknowledge receipt to the office issuing the revocation notice. The date of the notification and the action shall be entered in the employee's record. Immediately upon revocation of certification authority, the employee shall be counseled and a written formal program designed to restore proficiency shall be implemented. The employee shall be given an opportunity to reacquire certification authority in accordance with the process described in this order.

(5) After a period of inactivity of 2 years or longer, the proficiency of the technical specialist will be reviewed by the immediate supervisor prior to assignment/reassignment of certification responsibility for a particular system, subsystem, equipment or service. Following the review, the supervisor will forward to the SMO/OCC Manager a written assessment/ recommendation as to whether the employee's certification authority should be retained or revoked. The extent of this review shall be based upon the supervisor's judgment. This review may vary from observation of the employee's on-the-job work performance to requiring the employee to retake the theory-of-operations and/or performance examination(s). Inactivity shall not be an automatic cause for revocation of certification authority from a technical specialist.

(6) When certification authority is discovered to have been erroneously granted, it shall be revoked by the SMO/OCC Manager, and the employee notified in writing.

c. Changes to Certification Authority Prerequisites. Certification authority previously granted shall not be affected by later changes in examination and/or course configurations.

36. CERTIFICATION RESPONSIBILITY PHASE.

Assignment of certification responsibility is the final phase of the personnel certification process. It is this phase that enables the technical specialist to exercise certification authority to certify a discrete system, subsystem, equipment or service. Assignment of certification responsibility does not automatically follow the acquisition of certification authority. Certification authority may be exercised only after responsibility is assigned in writing.

a. Certification Responsibility Assignment. The SMO/OCC Manager assigns certification responsibility in writing on FAA Form 3400-5. When the OCC Manager assigns remote certification responsibility to OCC technical specialists for facilities within their domain, this responsibility assignment must be coordinated and documented in writing with the appropriate SMO Manager. A SMO/OCC Manager may assign a technical specialist such responsibility provided all the following criteria are met:

(1) The technical specialist possesses proper personnel certification authority.

(2) The technical specialist's supervisor:

(a) Is satisfied with the technical specialist's level of proficiency.

(b) Has prepared a written statement attesting to the fact that the technical specialist has acquired the practical experience and proficiency needed to perform the assignment. A signed FAA Form 3400-5 may suffice as this written statement.

(3) The SMO/OCC Manager has ascertained that the proposed certification responsibility assignments are required and are compatible with the technical specialist's position.

b. Developmental Certification Responsibility Assignment. Certification responsibility assignments to FAA developmental technical specialists who have not achieved full journey level, but who have acquired certification authority, shall be in accordance with all legal, regulatory, and procedural requirements as appropriate.

c. Emergency Certification Responsibility Assignment. Emergency responsibility assignments may be made in the event of an emergency situation, as defined in the current emergency readiness order. The SMO/OCC Manager may assign certification responsibility through the most expedient means; i.e., telephone, messenger, electronic mail, provided this action is followed up in a timely manner with the appropriate documentation in accordance with this order.

37. RETENTION/REVOCATION OF CERTIFICATION RESPONSIBILITY.

a. Retention of Certification Responsibility. Once a technical specialist is assigned certification responsibility for a specific system, subsystem, equipment or service, the first-line supervisor and the technical specialist shall ensure retention of proficiency as long as the certification responsibility remains in effect.

b. Review of Certification Responsibility. The first-line supervisor shall review the proficiency of each technical specialist assigned certification responsibility. This may be a formal examination of ability to perform designated procedures and adjustments, or an informal review by observation of on-the-job performance. The informal review can include site visits, casual observations, restorations, AT reports, log reviews, or other information gathered in the

normal routine of the supervisor's duties. A proficiency review shall be accomplished under any of the following conditions and appropriate written recommendations forwarded to the SMO/OCC Manager for their review and inclusion in the technical specialist's technical certification and related training record.

(1) Annually (see paragraph 7a).

(2) Whenever a question arises concerning the individual's technical proficiency.

c. Documenting the Review. The SMO/OCC Manager confirms the supervisor's review and recommendation. This review may include supporting documents such as certification authority records, Facility Service and Equipment Profile (FSEP), and certification responsibility assignment records. This proficiency review shall be documented and signed by the SMO/OCC Manager on the technical specialist's certification authority and related training record. A separate FAA Form 3400-3 shall be utilized to document and record line entries for annual proficiency reviews. No other entries will be entered on the annual review form. Refer to sample in appendix 1, figure 1-1.

d. Revocation of Certification Responsibility. Certification responsibilities shall be terminated in writing under the following conditions:

(1) When certification authority is revoked.

(2) When a facility for which responsibility is assigned is decommissioned.

(3) When a facility is modified or equipment replaced with systems requiring additional training and/or new theory-of-operations and performance examinations that invalidate the technical specialist's previous certification authorities.

(4) When proficiency review in paragraph 37b determines that it is warranted.

(5) When it is determined by management that the responsibility assignment is no longer required.

(6) When a technical specialist is transferred to another organization; i.e., System Support Center (SSC), SMO, OCC, etc.

(7) When any personnel action results in separation from the FAA.

38. ADDITIONAL SYSTEM, SUBSYSTEM, EQUIPMENT, OR SERVICES.

The requirements for certification authority for similar system, subsystem, equipment, or services may have the same theory-of-operations requirements and some of the same performance requirements. After certification authority has been granted on a system, subsystem, equipment, or service, it is necessary to complete only those portions of the performance examination that are unique to the similar or new system, subsystem, equipment, or service.

39. MODERNIZATION AND/OR EQUIPMENT REPLACEMENT OF COMMISSIONED FACILITIES.

A new certification authority will be required following any NAS modernization project, major equipment modification or replacement, which results in a hybrid system or equipment having new theory-of-operations requirements. The Training Division will determine when a new certification authority is required.

CHAPTER 4. THEORY-OF-OPERATIONS AND PERFORMANCE EXAMINATIONS

40. GENERAL.

All examinations (theory-of-operations and performance) used in the certification program shall be developed and validated under the administrative control of the Training Division. When made available, these examinations shall be used to determine whether the examinee possesses the theoretical knowledge and practical techniques required to certify a system, subsystem, equipment or service. Equipment theory-of-operations and performance examinations are comprehensive in scope, covering not only the equipment within a system, but also the auxiliary equipment considered to be part of the system. Software examinations cover utility, support, and diagnostic programs as well as the programs, subprograms, routines, and subroutines of a major program system. Only examinations authorized by the Training Division shall be used as a basis for granting Regular or Remote Regular certification authority.

41. THEORY-OF-OPERATIONS WRITTEN EXAMINATIONS.

In order to provide a method leading to certification authority, other than through resident training, a written theory-of-operations examination may be used. The scope and depth of a particular examination is representative of the knowledge required to perform effectively on the job. Those, who have had prior training or experience that indicates the attainment of this knowledge level, qualify to take the theory-of-operations examinations. Prerequisites for the theory of operations examination(s) are the same as for the course(s) to be bypassed. Where resident training is not available, the theory-of-operations examination is the principle means of measuring the understanding of a system, subsystem, equipment or service theory of operation. When a selection is made to fill a vacancy, the method of obtaining certification shall not be a factor in the selection.

a. Request for Theory-of-Operations Examinations.

(1) These examinations shall not be requested unless there is a reasonable expectation that they will be passed. Under no circumstances shall a theory-of-operations examination be used as a screening device to determine the probability of any technical specialist passing the corresponding FAA Academy course.

(2) Theory-of-operations examinations shall be requested by the regional AF Division Manager or SMO/OCC Manager as appropriate. The examinations may be taken via CBI using CBI terminal identifier or a paper copy mailed to the facility.

(3) These examinations will be maintained by the Examination Control Center (ECC) at the FAA Academy.

(4) If not proctored by the Program Support Staff, all examinations will be administered by a supervisor or monitor authorized in writing by the SMO/OCC Manager. The individual appointed to supervise the examination will serve as timekeeper, give instructions, check examinee' s answer sheet for complete entries, fill out all applicable paperwork, reseal examination along with scratch paper and notes, and ensure mail-out paper tests are returned to the ECC via certified mail.

(5) Each request shall include the examinee's name, social security number, and the SMO/OCC. If the examination is not administered to the designee within 30 calendar days after receipt, it shall be returned UNOPENED to the ECC. The regional AF Division Manager or SMO/OCC Manager may use the examination for another technical specialist PROVIDED this is not a retake examination. If it is to be a retake examination, coordination with the ECC must be accomplished to assure it would be appropriate. A letter of explanation concerning the name change shall accompany the completed examination when returned to the ECC.

(6) The completed examination shall be returned immediately to the ECC. The regional AF Division Manager or SMO/OCC Manager shall be advised of the grade as quickly as possible. In the event of a failure, a summary of the individual's weak points shall accompany the grade report if the grade equals or exceeds 50 percent. No summary will be provided for grades below 50 percent as all areas are considered weak.

(7) The responsibility for distribution of examination grade reports resides with the regional AF Division or SMO/OCC Manager. Mail-out test scores are posted via CBI by the ECC for viewing or documentation purposes until recorded in Consolidated Personnel Management Information System (CPMIS).

b. Integrity of Theory-of-Operations Examinations. All segments of the agency concerned with the certification process shall maintain security in the handling of written examinations. Compromise of examinations in any form is a serious violation of the rules of conduct and discipline. Violations in this area shall require official disciplinary action by the appropriate official.

(1) Security of theory-of-operations examinations includes, but is not limited to, the following:

(a) Locked and secured storage (combination lock or equivalent).

(b) An accountability system in place to ensure examinations are returned within 30 calendar days after receipt.

(c) Distribution of examinations limited to certified mail, responsible messenger, or CBI.

(d) Examinations are kept sealed except when being administered.

(e) All working notes are returned with the completed examination.

(f) Examination contents shall not be discussed or otherwise compromised.

(g) Absolutely no reproduction or copying of any part of the examination.

(h) Use only the materials provided by the ECC for a "closed-book" examination.

(2) Any person having personal knowledge of a compromise on any segment of the written examination shall immediately advise the SMO/OCC Manager or the regional AF Division Manager of the incident. Anyone having knowledge of a violation and failing to report it, or take appropriate action, may be subject to the same penalty as the individual guilty of the violation.

c. Deviations from Theory-of-Operations Examinations. Normally, the theory-of-operations examination must be completed in its entirety in order to receive credit on the

examinee's training record and equivalency. When an intermix of equipment results in a configuration where only portions of existing examinations are appropriate, the relevant portions may be used; i.e., Mark 1A localizer (LOC), and Mark 1B glide slope (GS). The determination of the portion to be used should be made by the examinee's supervisor or examiner and coordinated with the SMO/OCC Manager. The ECC shall be notified in writing and the entries in the technical specialist's record shall reflect the parts of the examination that were taken.

d. Theory-of-Operations Equivalency. The technical specialist certified through a system theory-of-operations examination shall be considered equal to a technical specialist certified through formal agency training.

42. PERFORMANCE EXAMINATIONS.

Performance examinations are used to measure proficiency as demonstrated by a technical specialist. Examinations may vary in length according to the complexity and scope of the system, subsystem, equipment or service. Practical demonstrations may involve adjustments or software program changes with observable results and shall also include analysis and correction of maladjustments or faults introduced into the equipment. A series of adjustments or software program changes may be required before an accurate measurement is made. Once the examinee has completed an operation, the examiner will grade the performance. Certain operations and critical parameters are considered LOCKOUT items and failure on any one of these items constitutes a FAILURE OF THE ENTIRE EXAMINATION. The use of reference material during the performance examination is encouraged.

a. Deviation from the Printed Examination Allowed. Any deviation from the Examination must have the SMO/OCC Manager's approval prior to the administration of the examination. The examinee shall be notified in writing of any deviation from the performance examination prior to taking the examination, and that the deviation has been approved by the SMO/OCC Manager. The examinee shall be advised that the examination will be graded and must be given enough time to prepare.

(1) The examiner may deviate from the performance examination to assure the required proficiency. Operations and questions other than those listed on the performance examination may be used to assure the examinee's knowledge of the entire system.

(2) The examiner may change the performance examination to make it compatible with the actual system used. Recommended changes, which should be made to examinations because of changes in maintenance procedures, system configurations, or testing equipment/techniques, shall follow the procedures outlined in the performance examination instructions to the examiner. For non-Federal facilities not having an existing performance examination, refer to paragraph 86.

b. Source of Performance Examinations. ECC is located at the FAA Academy and will maintain a hard copy of the most current performance examinations for distribution. The most current examinations shall be utilized and can be requested from the ECC or downloaded from the FAA Academy AF Training Bulletin Board (Refer to appendix 6).

c. Ordering and Handling of Performance Examinations. Secure handling of performance examinations is not required. Performance examinations should be provided to the certification candidate well in advance of administration so that they will be fully aware of what the examination consists of and the test equipment required.

d. Use of Performance Examinations as Study Guide. Where no formal OJT exists, a performance examination may be used as a study outline. The individual assigned to provide OJT shall not be the performance examiner.

e. Use of Performance Examinations on Non-Certifiable Systems. Training Division approved performance examinations shall be administered for personnel completing training on non-certifiable systems after the date of this order. Acronyms for these systems may be found in the current FSEP. Examinations of this type are utilized for measuring technical proficiency on system, subsystem or equipment that, though important to the NAS, do not require certification. Completion of performance examinations shall be documented on the reverse side of FAA Form 3400-3. Administration of locally developed performance examinations will be left to the discretion of the SMO/OCC Manager. For the purposes of non-certifiable system examinations, the examiner must be proficient on the system as determined by the SMO/OCC Manager.

f. Documentation Process. The Performance Examination Cover Sheet, FAA Form 3400-15, as illustrated in appendix 1, figure 6-1, shall be used to document this process.

43. UNIQUE SYSTEMS EXAMINATIONS.

There are several one-of-a-kind or limited-number "unique" systems. These systems shall be included in the national personnel certification program if they qualify. Any region having such a system shall advise the Training Division on how the region plans to proceed with development of the necessary examinations. Existing theory-of-operations and performance examinations on similar equipment may be used where appropriate. Draft copies of the newly developed examinations shall be forwarded to the Training Division through the appropriate AXX-400 training representative. The Training Division shall review, validate, and coordinate with other regions having a like system for inclusion in the National program. REGIONS SHALL NOT USE UNAUTHORIZED EXAMINATIONS AS A BASIS FOR THE GRANTING OF CERTIFICATION CREDENTIALS.

44. USE OF FAA THEORY-OF-OPERATIONS AND PERFORMANCE EXAMINATIONS.

The inventory of FAA theory-of-operations and performance examinations shall be used by FAA and non-Federal technicians. There shall be no duplication of effort to develop unique examinations solely for the purpose of examining non-Federal technicians.

45. EXAMINATION VALIDATION AND UPDATING.

Theory-of-operations and performance examinations are constantly being reviewed and updated. Examinations are combined or eliminated when found to be redundant or obsolete. Any examiner who detects improper questions or measurements, incorrect references, or who is administering an examination that is not intended for the system involved should include the appropriate comments with the examination and return it to the appropriate office. Theory-of-operations examinations shall be forwarded to the ECC. Performance examinations shall be

forwarded to the Training Division. The ECC shall coordinate all revisions to theory-of-operations examinations and submit them to the Training Division for review and approval. The regional AF Division Manager will also be advised through the appropriate channels of any improper questions, procedures, or references submitted.

46. FAILED EXAMINATIONS.

a. Failed Theory-of-Operations Examinations. Examinations, answer sheets, comments, etc., pertaining to a failed theory-of-operations examination must be retained by the ECC in accordance with the latest version of Order 1350.15.

b. Failed Performance Examinations. Performance examination failures shall clearly list the reasons for failure on FAA Form 3400-15 and shall be retained in the employee's certification and training history at the SMO/OCC.

47-49. RESERVED.

CHAPTER 5. RELATIONSHIP OF CERTIFICATION TO FAA EMPLOYMENT

50. QUALIFICATION STANDARDS.

Qualification requirements have been established for AF technical specialists by the appropriate classification guides. The guides additionally require that most FAA technical specialists obtain and retain certification authority and responsibility required by their positions. Procedures for obtaining this authority and responsibility are described in this order. Failure to obtain or retain the appropriate certification authority and responsibility may constitute disqualification for the position.

a. Initial Certification Requirements. The SMO/OCC Manager shall assure that FAA employees new to a position requiring certification authority are counseled on the certification requirements for that position. A training plan shall be established using FAA Form 3000-14, AF Training Plan, to ensure the employee fully qualifies for the position within a reasonable time frame. FAA Form 3400-6, Certification Authority Requirements Agreements shall be executed committing FAA management and the employee to a program to achieve the required certifications. The SMO/OCC Manager may extend the time limits for completing the agreement, if conditions beyond the control of the employee are encountered. Refer to appendix 1, figures 4-1 and 5-1 for samples.

b. Additional Certification Requirements. Journey-level employees who are otherwise fully qualified for their positions are frequently faced with new requirements for additional certifications due to new facilities and equipment upgrades. When this occurs, the first-line supervisor shall develop a training plan using FAA Form 3000-14 that will meet the additional requirements. If the employee fails to satisfactorily complete the prescribed training plan, the failure may be an employee performance problem and appropriate action should be taken.

51. ACTION FOLLOWING FAILURE TO FULFILL CERTIFICATION REQUIREMENTS.

If after the prescribed time limits, the individual has not satisfactorily completed all requirements for certification authority, the regional AF Division Manager or SMO/OCC Manager will consider the avenues of action listed below. The selected action will be carried out through existing procedures and authorities.

a. Reassignment. When an employee has failed to become certified, reassignment to a vacant position for which the individual can qualify shall be considered. It is not mandatory that the new assignment be at a location or be a type of work preferred by the employee.

b. Reduction-in-Grade. Reduction-in-grade may be considered for those employees who are unable to meet certification requirements and for whom no acceptable equivalent vacancy can be found. Any adverse action would be based upon the employee's inability to perform the duties of the assigned position.

c. Separation. Employees in positions requiring certification authority may be subject to separation action if they are unable to qualify through the several methods allowed. This action would be based upon the employee's inability to perform the duties of the position.

d. 52-59. RESERVED.

CHAPTER 6. EXAMINERS/PROCTORS AND EXAMINATION PROCEDURES

60. SELECTION OF EXAMINERS/PROCTORS.

Each regional AF Division/SMO/OCC Manager has the responsibility for selecting examiners/proctors who can demonstrate qualities of objectivity and fairness in conducting/proctoring an examination. Examiners/proctors will administer pertinent examinations in both testing phases of the certification process; i.e., systems theory-of-operations and system performance.

a. Theory-of-Operations Proctor Requisites.

(1) The proctor shall be designated in writing.

(2) The proctor need not hold certification authority since the duties are monitoring only.

(3) The proctor shall be an FAA employee and may require a technical background.

b. System Performance Examiner Requisites.

(1) The performance examiner shall be designated in writing. This designation shall grant the examiner certification responsibility for the specific facility for the purpose of administering the examination and shall be documented on FAA Form 3400-15.

(2) The performance examiner must possess certification authority for the entire system on which the examination is given. In order to initially start the certification process for a particular system, subsystem, equipment or service, the performance examiner may be granted Temporary, Interim or Remote Interim certification authority as explained in paragraph 32.

(3) For the purposes of non-certifiable system examinations, the examiner must be proficient on the system as determined by the SMO/OCC Manager.

(4) The performance examiner shall be an FAA employee.

(5) The performance examiner shall not administer performance examinations to their supervisor.

(6) Performance examiners who are external to the local organizational entity are preferable.

(7) The performance examiner shall not be an individual who was administered the same performance examination by the examinee.

(8) The performance examiner shall not be the individual who provided OJT.

(9) The performance examiner shall sign all performance examinations.

(10) The performance examiner, or other technical specialist, shall make the appropriate certification statement entry in the facility log before the system, subsystem, equipment is returned to service.

61. PROCEDURES GOVERNING ADMINISTRATION OF AN EXAMINATION.

The following procedures shall apply to the administration of examinations given within this program:

a. Theory-of-Operations Examination. The proctor shall:

(1) Understand and apply mandatory secure handling requirements to protect the integrity of the program (paragraph 41b).

(2) Not discuss or disclose the contents of an examination with the examinee.

(3) Advise the examinee on the official nature of the documents and penalties involved for disclosure of their contents.

(4) Prepare an appropriate area for the administration of the examination, give the examinee any required instructions, materials, control and time the examination as prescribed, and process the completed examination as instructed.

(5) Store examinations in a secure place.

(6) Assure all scratch paper and notes are returned to the ECC with the examination.

(7) Allow the examinee access to only the reference material provided by the ECC if the examination is designated as closed book.

(8) Annotate the examination as to which questions are applicable for the system or configuration on which the test is intended.

(9) Assure that the proctor and examinee sign AC Form 3130-9, Envelope A, prior to returning the examination to the ECC.

(10) Ensure no other person is allowed in the immediate presence of the examinee(s) while the examination is in progress.

b. Performance Examinations.

(1) Distribution of performance examinations to individuals prior to actual administration is required and any approved deviations must also be provided in writing to the examinee. Individuals requiring certification authority shall be made thoroughly familiar with the examination requirements and related procedures during OJT.

(2) The examinee will complete the examination tasks unassisted, except in instances where two people are required to make a particular adjustment.

(3) The examiner shall be thoroughly familiar with the instructions and procedures pertaining to the performance examination.

(4) The examiner shall make specific comments regarding the examinee's performance, procedures, failures, and other observations on the reverse side of FAA Form 3400-15.

(5) The examiner shall assure that the facility is operating normally at the conclusion of the examination or at any breaks in the examination and shall make appropriate log entries.

62. RETAKING EXAMINATIONS.

Examinations, either written or performance, shall not be readministered to individuals who have failed to pass a previous examination unless at least 30 calendar days have passed and measurable training progress has been made or a written waiver to the 30-day time limit has been granted by the regional AF Division/SMO/OCC Manager. All requests for retaking a theory-of-operations examination prior to the 30-day time limit shall be submitted in writing to the ECC and accompanied with copies of the appropriate waivers. If an appropriate subdivision can be made, retakes may be limited to those subject areas of the examinations that the examinee has failed; e.g., the glideslope (GS) portion of an ILS examination or receiver portion of an airport surveillance radar (ASR) examination. Reexamination falls into two categories as indicated below.

a. Retakes of Theory-of-Operations Requirements. Regardless of the method only three total attempts shall be allowed to satisfy the theory-of-operations requirements. The third and final attempt requires a written waiver granted by the regional AF Division Manager. In the event of a failure by an individual requiring certification authority, a written performance improvement program shall be promptly prepared. The performance improvement program shall be documented in the official certification record file and shall list the following:

(1) Areas of knowledge deficiencies.

(2) Recommended study materials.

(3) Method for measuring progress.

(4) Establish a time schedule for completion of the improvement program.

(5) Identify instructor and method of documenting training.

b. Retakes of Performance Examinations. The supervisor shall determine, prepare, and document a performance improvement program for the individual who requires certification authority but has failed a performance examination. The performance improvement program shall be documented in the certification record file and approved by the responsible SMO/OCC Manager. The performance improvement program shall:

(1) List areas of deficiencies.

(2) Itemize OJT requirements.

(3) Establish a time schedule for completion.

(4) Identify instructor and method of documenting training.

63-69. RESERVED.

CHAPTER 7. FILES, FORMS, RECORDS, AND REPORTS

70. FILES.

An official "certification/training" record file (electronic or paper) shall be established and maintained in the SMO/OCC on each individual requiring certification authority. Field managers having personnel certification program responsibilities may maintain an informal certification/training file in accordance with the latest version of Order 1350.15.

a. Official Certification/Training Record File. Each official certification/training record file shall contain sufficient documentation to substantiate the technical specialist's qualifications to possess certification authority and responsibility on a specific system, subsystem, equipment or service. The official certification/training record file shall contain the following:

(1) FAA Form 3400-3.

(2) Theory-of-operations examination results recorded on FAA Form 3400-3.

(3) OJT completion recorded on FAA Form 3400-3.

(4) Performance examination results recorded on FAA Form 3400-3.

(5) Original certification responsibility assignments on FAA Form 3400-5.

(6) Documentation of technical specialist's proficiency reviews.

(7) Current certification authority requirements agreements on FAA Form 3400-6.

(8) Current training plan on FAA Form 3000-14.

(9) Active written performance improvement programs.

(10) Verification authorizations for non-Federal technicians.

(11) Cover sheets of successfully completed performance examinations on FAA Form 3400-15.

b. Reassignments. When an employee covered by the AF Maintenance Personnel Certification Program is reassigned to another SMO/OCC, the official certification/training record file shall be transferred by certified mail, return receipt requested, or by messenger to the employee's new SMO/OCC within thirty days. In all other cases when a technical specialist leaves the region's jurisdiction or is separated by the agency, the official certification/training record files will be forwarded to the regional AF division, via certified mail for disposition or retention in accordance with the latest version of Order 1350.15.

c. Retention. The official certification record case file shall be retained by the regional AF division in accordance with the latest version of Order 1350.15.

71. FORMS DESCRIPTION AND USE.

The forms associated with the AF Maintenance Personnel Certification Program are described below. The original of all forms shall be included in the individual's official certification and training record file. From the date of this order, all existing documentation will be retained as is. At the time of any new action, the procedures contained in this order are required for the documentation process. Forms listed below are available for downloading from the FAA Academy AF Training Bulletin Board.

a. FAA Form 3400-3. Refer to appendix 1, figure 2-1. This form or similar automated record shall be used to record the status of each individual in the certification program. It shall specify, in detail, an individual's certification authority. The information on the form shall include, but is not limited to, the following:

(1) All certification authorities granted.

> **NOTE:** Only system, subsystem, equipment, or services listed in Order 6000.15 shall be documented on the front side of this form.

(2) FAA Academy resident and distance learning courses, formal OJT, out-of-agency training, regional training, certification performance examinations whether passed or failed, with dates of completion.

(3) Signature and/or initials of responsible official.

(4) The beginning and ending dates in which experience was acquired when experience is used in lieu of a performance examination.

(5) Date certification authority on a specific system, subsystem, equipment, or service is revoked.

b. FAA Form 3400-5, Certification Responsibility. Refer to appendix 1, figure 3-1. This form is used for Federal employees only. This certification responsibility document or similar automated record is the means of officially assigning certification responsibility to FAA employees. FAA Form 3400-5 shall be signed by the employee, the immediate supervisor, and the SMO/OCC Manager. The original form shall be included in the individual's official certification/verification record files and the superseded form annotated with a cancellation date corresponding to the effective date of the new FAA Form 3400-5.

> **NOTE:** Only certifiable systems subsystem, equipment or services listed in the latest version of Order 6000.15 shall be included on this form.

c. FAA Form 3400-6, Certification Authority Requirements Agreements. Refer to appendix 1, figure 4-1. This form is to be used when an employee enters a new position requiring certification authority. This form may be used but is not required when an employee's current position accrues a new certification authority requirement. FAA Form 3400-6, is not required for non-Federal employees.

d. FAA Form 3000-14, AF Training Plan. Refer to appendix 1, figure 5-1. The requirements for use of this form are described by the latest version of Order 3000.10, Airway Facilities Maintenance Technical Training Program.

e. FAA Form 3400-15, Performance Examination Cover Sheet. Refer to appendix 1, figure 6-1. This form shall be used for documenting all performance examinations, designating the examiner, and assigning certification responsibility to the examiner.

72. REPORTS.

The AF Maintenance Personnel Certification Program includes record keeping and retention of information in sufficient detail to substantiate the requirements imposed herein. These reports (paper or electronic), regardless of media, shall be maintained in accordance with the latest version of Order 1350.15. Normally, this information will be contained in a database format. The information blocks contained in the FAA forms listed hereon may be computer generated in report format to meet the requirements of this order.

73. COMPUTER SECURITY, PRIVACY, AND FREEDOM OF INFORMATION ACT.

Certain legal and regulatory restrictions are placed on the collection, use, and dissemination of information. See the latest version of Order 1280.1, Protecting Privacy of Information About Individuals, and Order 1370.82, FAA Automated Information System Security Handbook. These requirements must be applied, when and where appropriate, to the provisions of this directive. Accreditation of the automation program and equipment shall be obtained from the regional Civil Aviation Security Division. See the latest version of Order 1370.82 for procedures.

74. AUTOMATION OF RECORDS.

Implementation of a national standard database for certification and training is desired to cross reference the certification requirements for the position to the training history of the technical specialist. Automation permits the generation of FAA Form 3400-3; FAA Form 3400-5; FAA Form 3400-6; FAA Form 3400-15. The database shall provide a cumulative (historical) record of the personnel certification/training for each technical specialist. FAA Form 3400-3 superseded by automation should be retained for historical purposes.

a. Authority. Regions, SMOs, and OCCs are authorized to automate personnel certification and training records.

b. Automated Forms. The computer-generated forms/reports shall contain, as a minimum, the information required on FAA Form 3000-14; FAA Form 3400-3; FAA Form 3400-5; FAA Form 3400-6; FAA Form 3400-15.

c. Database. Any database used to support automated certification authority and certification responsibility forms shall comply with the data field requirements as listed in appendix 2, figure 1.

(1) Standard acronyms for granting certification authorities can be found in the latest version of Order 6000.15.

(2) Databases shall be electronically backed up and the backup files should be secured in a fireproof environment or at another location. The retention of these files shall be in accordance with the latest version of Order 1350.15.

e. Signatures. Databases with electronic signatures will only be permitted if they meet the requirements of General Services Administration (GSA), National Archives and Records Administration (NARA), and legal. Paper copies of automated reports that do have electronic signature must have original signatures. A block will be provided on the form for the SMO/OCC Manager's signature. This signature validates existing data.

75-79. RESERVED.

CHAPTER 8. VERIFICATION OF PERSONNEL MAINTAINING NON-FEDERAL FACILITIES

80. GENERAL.

The information within this chapter is intended to clarify and provide additional information as applicable to the non-Federal technical verification program. Non-Federal public-use facilities that have been approved for instrument flight rules (IFR) and air traffic control (ATC) procedures in the NAS are required to meet Federal Communications Commission (FCC) licensing requirements. Non-Federal personnel maintaining these facilities or any transmitter or transmitting facility must possess an FCC General Radio Telephone Operator license in accordance with 47 Code of Federal Regulations (CFR) Part 87 (71 and 73). In addition, non-Federal personnel must meet the FCC license requirements for Federal Aviation Regulations (FAR) Part 171 facilities and applicable FAA orders, advisory circulars, and regulations. Technicians maintaining these facilities must show that they have the special knowledge and skills needed to maintain these facilities. It is the responsibility of the regional AF division to administer this program, but portions may be delegated to the SMO.

81. RESPONSIBILITY FOR NON-FEDERAL FACILITIES.

It is the responsibility of each regional AF Division Manager to:

a. Identify non-Federal facilities in their geographical area which are used, or will be used, in the NAS and have been approved for IFR and ATC procedures as outlined in FAR Part 171 and the latest version of Order 6700.20, Non-Federal Navigational Aids and Air Traffic Control Facilities.

b. Establish methods for the appropriate regional personnel to "verify" the capability of non-Federal personnel who are assigned maintenance responsibility for these facilities. This verification shall be accomplished through the administration of suitable examination procedures as delineated in this order.

82. PROCEDURES FOR VERIFICATION OF PERSONNEL MAINTAINING NON-FEDERAL FACILITIES.

Personnel responsible for the maintenance of non-Federal facilities described in paragraph 81 shall demonstrate that they have the special knowledge and skills required to adequately perform this task. All non-Federal technicians shall meet the minimum competency level with respect to theory-of-operations and performance requirements for the same or similar systems and equipment as FAA technical specialists. This includes minimum basic system theory-of-operations, specific system theory-of-operations, and specific system performance examinations. This will be accomplished through satisfactory completion of an appropriate FAA Academy conducted course, an FAA-approved factory conducted training course, or satisfactory completion of theory-of-operations and performance examinations administered by FAA employees. The above procedure is the normal verification process for technicians maintaining non-Federal facilities and shall be adhered to except in cases where appropriate examinations are not available, in which case verification may be by interim verification methods (see paragraph 84).

a. Theory-of-Operations Equivalent. The non-Federal technician is required to satisfactorily complete basic theory-of-operations requirements by the methods indicated in paragraph 82 of this order. Non-Federal employers, or sponsors, shall determine which method listed in paragraph 82 they will utilize to develop or measure a technician's level of competency for basic theory-of-operations.

(1) For a list of the basic theory-of-operations or the equivalencies, refer to appendix 3.

(2) For the purpose of FAA training and verification requirements, the possession of an FCC General Radio Telephone Operator license or an FCC General Radio Telephone Operator license with the additional (shipboard) Radar Endorsement will be considered equivalent to various FAA theory-of-operations examinations as indicated in appendix 3. Other out-of-agency training (OAT) equivalencies can also be found in appendix 3.

b. Performance Examinations. Performance examinations for non-Federal technicians shall be administered by FAA employees who possess certification authority on the appropriate type or similar type of facility. Appendix 5 contains a list of non-Federal facilities and the appropriate examinations for each type.

c. Prerequisite Training. Non-Federal employees may choose any method desired for completing all training up to, but not including, the basic theory-of-operations.

83. EFFECTIVE VERIFICATION DATE OF PERSONNEL MAINTAINING NON-FEDERAL FACILITIES.

Upon approval of a non-Federal system for use in the NAS, action will be taken to initiate development of appropriate examinations to validate the knowledge and skills of personnel having maintenance responsibility for the equipment. The "effective verification date" shall be 120-days from the date the examination is posted in appendix 5 for the particular system. After the "effective verification date," responsibility for the performance of a system shall be assigned only to those individuals possessing the authority granted under the provisions of paragraph 80. For systems incorporated into the NAS prior to March 12, 1973, the "effective verification date" is April 13, 1974.

a. Personnel maintaining equipment incorporated in the NAS, who have received verification authority in any form prior to December 12, 1994, and have maintained proficiency, shall not be required to take additional theory-of-operations examinations on the same system(s).

b. Non-Federal technicians assigned maintenance responsibility for presently approved systems or for new systems, as they are approved for incorporation into the NAS, shall meet the requirements of paragraph 82.

84. INTERIM VERIFICATION PROCEDURES.

Examinations may not be immediately available for non-Federal systems added to the NAS. Under these circumstances, interim verification authority may be granted upon satisfactory completion of the requirements found in paragraph 33b of this order, and a demonstration of ability to complete a locally developed performance examination comprised of the maintenance checks and tasks outlined in the equipment instruction book. A copy of the locally developed performance examination will be forwarded through the appropriate region to the Training Division for coordination with the national non-Federal program manager. If a national performance examination is not developed within 1 year after administering the locally

developed performance examination and the employee has performed required duties competently for at least a 12-month period and has satisfied theory-of-operations requirements, the interim verification authority shall be converted to a regular verification authority as indicated in paragraph 33.

85. VERIFICATION CREDENTIALS AND RECORDS.

Non-FAA technicians maintaining non-Federally owned facilities which are in the NAS infrastructure are required to hold verification authority.

a. Non-Federal Technicians Verification Authority. The regional AF Division/SMO Manager will be responsible for issuing non-Federal technicians verification authority on a specific system, subsystem, equipment or service and maintaining a record of the facilities maintained by each non-Federal technician. Non-Federal technicians are not assigned specific facility responsibility by the FAA. Therefore, paragraphs 36 and 37 of this order do not apply to non-Federal technicians.

b. Non-Federal Sponsor Responsibilities. The non-Federal facility sponsor is responsible for hiring, assigning maintenance responsibility and, with the help of the regional AF Division/SMO Manager, ensuring the technician meets the FCC licensing and FAA training requirements.

c. Verification Oversight. The individual technician, the employer, the sponsor, and the regional AF division non-Federal coordinator shall be provided a written notice of successful completion of verification requirements and issuance of verification authority. This written notice may take any form deemed appropriate by the responsible regional AF division. The regional AF division non-Federal coordinator shall maintain a record of all non-Federal facilities within their area of jurisdiction, the names of the sponsoring organizations, and the names of the technical personnel granted verification authority for each system. The office granting a verification authority shall maintain a copy of the technician's FCC license, theory-of-operations certificates, performance exam cover sheets, all verification letters, reviews, revocations and any other supporting documentation. The same forms as indicated by the established guidelines for FAA technical specialists shall be used except where specified.

d. Verification Responsibility Across Regional/SMO Boundries. When a non-Federal employer or a sponsor desires to utilize a technician holding verification authority in another region/SMO, they will request a copy of the verification records from the issuing region/SMO. These records will be forwarded to the requesting region/SMO and validated. Verification authority may then be granted in accordance with paragraph 85c and based on records for the same type equipment/facilities within the requesting region/SMO's jurisdiction. If there are discrepancies in the records that prevent granting verification authority, it will be the responsibility of the requesting region/SMO to contact the region that issued the verification authority for clarification. Attempts to resolve any discrepancies should be made at the lowest level before forwarding to a higher level. Final resolution will be made by the Training Division and coordinated with the national non-Federal program manager.

86. DEVELOPMENT OF VERIFICATION EXAMINATIONS.

When approval is granted for IFR and ATC procedures using new types of non-Federal facilities not already included in the NAS, the cognizant regional AF Division Manager shall notify the Training Division of the location, type, and the intended commissioning date for a new facility.

The Training Division will initiate action to have suitable verification examinations developed as soon as possible.

87. GRADING.

Theory-of-operations examinations shall be graded exclusively by the ECC.

88. STORAGE.

Storage of written examinations shall be limited to the ECC. Under no circumstances shall theory-of-operations examinations be in the custody of non-Federal personnel. A supply of performance examinations may be maintained in each region and/or copied from the FAA Academy AF Training Bulletin Board.

89. TRAINING FOR NON-FEDERAL PERSONNEL.

The FAA Academy maintains an elaborate correspondence, resident, and CBI training program for FAA personnel. However, these courses and training manuals may be available to non-Federal personnel on a reimbursable cost basis. After non-Federal employers or sponsors receive a price quote, a written statement is required listing the number of copies of material requested, unit price, total cost, and a statement they are aware of the cost and agree to reimburse the FAA Academy for the full amount. If the course needed is an OAT course, the materials must be obtained from the contractor. Send or facsimile all non-Federal requests for training or materials to the OAT Training Coordinator, AMA-405. The mailing address is:

Federal Aviation Administration
Mike Monroney Aeronautical Center, AMA-405
P.O. Box 25082
Oklahoma City, OK 73125

APPENDIX 1. LISTING OF FORMS

The following forms are available through normal channels or by electronically accessing the FAA Academy AF Training Bulletin Board.

Form Number	Title	NSN/Unit of Issue
FAA Form 3000-14	Airway Facilities Training Plan	0052-00-888-4000 Sheet
FAA Form 3400-3	AF Personnel Certification/Verification Authority and Related Training Record	0052-00-648-4004 Sheet
FAA Form 3400-5	Certification Responsibility	0052-00-842-8001 Sheet
FAA Form 3400-6	Certification Authority Requirements Agreement	0052-00-843-0001 Sheet
FAA Form 3400-15	Performance Examination Cover Sheet	0052-00-921-4000 Sheet

NOTE: All examples shown in Appendix 1 are examples intended to provide guidance to personnel involved in making these entries.

APPENDIX 1. LISTING OF FORMS (CONTINUED)

FIGURE 1. Instructions for Preparing FAA Form 3400-3, AF Personnel Certification/Verification Authority and Related Training Record (Annual Review).

1. Technical specialist's name (last, first, and middle initial).

2. Technical specialist's social security number.

3. Technical specialist's occupational series; i.e., FG-856, FG-2101, non-Federal, etc. The grade level shall not be used.

4. Leave blank.

5. Leave blank.

6. Leave blank.

7. Leave blank.

8. Leave blank.

9. Leave blank.

10. Leave blank.

11. Leave blank.

12. Leave blank.

13. Leave blank.

14. Leave blank.

15. The technical specialist's current duty status; i.e., ABC SSC, (for non-Federal technicians, use SMO identification code), date of the action, description of the action (annual review for proficiency), written signature of SMO/OCC manager, and routing symbol of the SMO/OCC manager.

16. Leave blank.

APPENDIX 1. LISTING OF FORMS (CONTINUED)

FIGURE 1-1. SAMPLE FAA FORM 3400-3 ANNUAL REVIEW

PAGE NO.

AF PERSONNEL ☐ CERTIFICATION ☐ VERIFICATION AUTHORITY AND RELATED TRAINING RECORD

1. EMPLOYEE'S NAME	2. SOCIAL SECURITY NUMBER	3. SERIES
Doe Jacqueline A.	123-45-6789	FG-2101

4. SYSTEM / SUBSYSTEM / EQUIPMENT or SERVICE 1/							
5. THEORY-OF-OPERATIONS QUALIFICATION 2/							
6. DATE QUALIFIED							
7. INITIALS							
8. OJT DATE QUALIFIED							
9. INITIALS							
10. PERFORMANCE QUALIFYING METHOD 3/							
11. DATE QUALIFIED							
12. INITIALS							
13. DATE AUTHORITY ACQUIRED							
14. DATE AUTHORITY REVOKED							

15. CHANGE OF STATION, ANNUAL REVIEW AND VALIDATION RECORD

EMPLOYEE DUTY STATION	DATE OF ACTION	REMARKS 4/	AF OFFICIAL SIGNATURE	AF OFFICIAL RTG. SYM.
ABC SSC	02/02/94	Annual Review	Robert Smith	MGR. ABC SMO
ABC SSC	01/18/95	Annual Review	Harold Jones	Act. MGR. ABC SMO
ABC SSC	02/12/96	Annual Review	Robert Smith Robert Smith	MGR. ABC SMO
ABC SSC	02/12/97	Annual Review	Robert Smith	MGR. ABC SMO
ABC SSC	02/12/98	Annual Review	Harold Jones	Act. MGR. ABC SMO
ABC SSC	02/12/99	Annual Review	Robert Smith	MGR. ABCSMO
ABC SSC	01/15/00	Annual Review	Robert Smith	MGR. ABC SMO
XOCC	12/14/00	Annual Review	Brenda T Jones	MGR. XOCC

FAA Form 3400-3 (11-01) Supersedes Previous Editions NSN 0052-00-648-4004

APPENDIX 1. LISTING OF FORMS (CONTINUED)

16. RECORD OF RELATED TRAINING AND EXAMINATION RESULTS							
SYSTEM / SUBSYSTEM/ EQUIPMENT or SERVICE	CPMIS or COURSE NUMBER	TRAINING OR EXAMINATION				REMARKS	INITIALS
		TYPE 5/	EXAM NUMBER	RESULTS 6/	DATE COMPLETED		

Notes: Instructions for completing this form are in Order 3400.3.

1/ If other than regular certification, enter (I) for Interim or (T) for Temporary, (R) for Remote, and (I/R) for Interim Remote.
2/ Course Number, CPMIS Number or "INF" for Informal Training
3/ Performance Exam No. or PEXAM for Performance Examination, EXP for Experience, PC for Prior Certification, N/A for Not Applicable
4/ Denote type of action in the "Remarks" column.
5/ Enter "C" if pertaining to Concepts/Theory-of-operations, "P" if pertaining to Performance, or "O" if pertaining to OJT.
6/ Enter "P" for Passed or "F" Failed.

APPENDIX 1. LISTING OF FORMS (CONTINUED)

FIGURE 2. Instructions for Preparing FAA Form 3400-3, AF Personnel Certification/Verification Authority and Related Training Record (Certification Authority).

NOTE: When this form is used for "Verification" of non-Federal technicians, the verification box shall contain a check mark and blocks 8 and 9 shall be left blank.

1. Technical specialist's name (last, first, and middle initial).

2. Technical specialist's social security number.

3. Technical specialist's occupational series; i.e., FG-856, FG-2101, non-Federal, etc. The grade level shall not be used.

4. Enter the standard facility type acronyms for the specific system or subsystem as found in Order 6000.15 and the appropriate five-digit Facility Identification Code as listed in Order 1375.4. For service certification, enter only the appropriate acronym found in Order 6000.15. Temporary or interim certification shall be indicated by the appropriate letter "T", "I", "R", or "I/R" and enclosed in parentheses.

5. Course number/CPMIS Number by which theory-of-operations requirements are met. Enter "INF" only for granting interim certification based on informal training.

6. Date technical specialist successfully completed theory requirements.

7. Handwritten initials of the SMO/OCC manager or designated responsible official. These initials may be typed or printed only if original records are being updated.

8. Date technical specialist successfully completed OJT requirements.

9. Handwritten initials of the SMO/OCC manager or designated responsible official. These initials may be typed or printed only if original records are being updated.

10. Method by which performance requirements are met. If not applicable, enter "N/A."

11. Date technical specialist successfully completed performance requirements. If performance requirements are met by experience, the beginning and ending dates shall be shown.

12. Handwritten initials of the SMO/OCC manager or designated responsible official. These initials may be typed or printed only if original records are being updated.

APPENDIX 1. LISTING OF FORMS (CONTINUED)

FIGURE 2. Instructions for Preparing FAA Form 3400-3, AF Personnel Certification/Verification Authority and Related Training Record (Certification Authority) (Continued).

13. The date authority is granted.

14. The date authority is revoked.

15. The technical specialist's current duty station; i.e., ABC SSC/XOCC, date of the action, description of the action; i.e., specific authority granted/terminated/revoked, written signature and routing symbol of the SMO/OCC manager. The SMO/OCC manager's signature validates the items or actions indicated in blocks 1-14.

a. Administrative actions relating to the employee's certification authorization.

b. Enter the employee's current duty station; for non-Federal technicians use SMO cost center code, the date, the reviewing official's signature and routing symbol. Denote type of action in the "Remarks" column.

16. Use this section to record technical training and examination results.

a. Column 1, when applicable, enter the standard facility type acronyms (refer to the latest version of Order 6000.15 and/or FSEP for the specific system/subsystem or equipment).

b. Column 2 shall indicate the appropriate CPMIS numbers; i.e., 4XXXX, 8XXXX.

c. Column 4 shall indicate the appropriate examination numbers; i.e., NXX, CPXX, PVE-XXX.

APPENDIX 1. LISTING OF FORMS (CONTINUED)

FIGURE 2-1. SAMPLE FAA FORM 3400-3, CERTIFICATION AUTHORITY

AF PERSONNEL ☒ CERTIFICATION ☐ VERIFICATION AUTHORITY AND RELATED TRAINING RECORD

1. EMPLOYEE'S NAME	2. SOCIAL SECURITY NUMBER	3. SERIES
Doe, Jacqueline A.	123-45-6789	FG-2101

4. SYSTEM / SUBSYSTEM / EQUIPMENT or SERVICE 1/	314CS LOC	ILS (I)	442AA RTR	3326E MALSR (I)	314NC LOC (I)	3326E MALSR	CFAD
5. THEORY-OF-OPERATIONS QUALIFICATION 2/	47702	44702	88000	40143	47702	40143	40419
6. DATE QUALIFIED	7/2/95	7/2/95	10/10/95	3/9/96	7/2/95	3/9/96	10/6/99
7. INITIALS	TRW	TRW	VDD	VDD	RGE	BTH	RJA
8. OJT DATE QUALIFIED							11/22/99
9. INITIALS							RJA
10. PERFORMANCE QUALIFYING METHOD 3/	NP53 PEXAM	N/A	CP51	N/A	N/A	EXP	PEXAM
11. DATE QUALIFIED	9/5/95	N/A	1/18/96	N/A	N/A	7/10/96 5/1/98	12/9/99
12. INITIALS	TRW	TRW	VDD	VDD	RGE	BTH	RJA
13. DATE AUTHORITY ACQUIRED	9/15/95	9/15/95	1/26/96	6/30/96	7/3/96	12/15/99	12/15/99
14. DATE AUTHORITY REVOKED				12/15/99	8/20/96		

15. CHANGE OF STATION, ANNUAL REVIEW AND VALIDATION RECORD

EMPLOYEE DUTY STATION	DATE OF ACTION	REMARKS 4/	AF OFFICIAL SIGNATURE	AF OFFICIAL RTG. SYM.
ABC SSC	9/15/95	Regular Certification Authority Granted on LOC (Log Periodic, MK-1F).	Robert Smith Robert Smith	Manager, ABC SMO
ABC SSC	9/15/95	Interim Certification Authority Granted on ILS Service.	Robert Smith Robert Smith	Manager, ABC SMO
ABC SSC	1/26/96	Regular Certification Authority Granted on RTR.	Harold Jones Harold Jones	Acting Manager, ABC SMO
ABC SSC	6/30/96	Interim Certification Authority Granted on MALSR (AVW).	Robert Smith Robert Smith	Manager, ABC SMO
ABC SSC	7/3/96	Temporary Certification Authority Granted on LOC (MK-20) Based on		
		47702. Revocation date: 8/20/96	Robert Smith Robert Smith	Manager, ABC SMO
ABC SSC	5/1/98	Page 1 retyped to be IAW 3400.3G	Gerald E. Byrd	PSS, ABC SMO
ABC SSC	12/15/99	Regular Certification Authority Granted on MALSR (AVW). Interim Converted	Robert Smith	Manager, ABC SMO
ABC SSC	12/15/99	Regular Certification Authority Granted on CFAD service.	Robert Smith	Manager, ABC SMO

FAA Form 3400-3 (11-01) Supersedes Previous Editions NSN 0052-00-648-4004

APPENDIX 1. LISTING OF FORMS (CONTINUED)

FIGURE 2-1. SAMPLE FAA FORM 3400-3, CERTIFICATION AUTHORITY (CONTINUED)

16. RECORD OF RELATED TRAINING AND EXAMINATION RESULTS

SYSTEM / SUBSYSTEM/ EQUIPMENT or SERVICE	CPMIS or COURSE NUMBER	TRAINING OR EXAMINATION				REMARKS	INITIALS
		TYPE 5/	EXAM NUMBER	RESULTS 6/	DATE COMPLETED		
	44504	C		P	11/18/94	Electronics Fundamentals and Engineering Math	TCC
	47001	C		P	12/20/94	Troubleshooting Techniques	RTA
	40150	C		P	1/17/95	Common Principles: AC/DC Transients	TCC
	40151	C		P	2/21/95	Common Principles: Digital Logic	RGE
	40152	C		P	3/7/95	Common Principles: Antennas and Transmission Lines	RTA
	88297	C	N42	P	3/28/95	Common Principles: Solid State Devices	BTH
	44715	C		P	4/23/95	ILS Theory	TRW
	40233	C		P	5/6/95	ILS Concepts	TRW
LOC	47702	C		P	7/2/95	Localizer - MK-1 D/E/F	TRW
LOC	88753	P	NP53	P	9/5/95	Localizer, MK-1FD, Log Periodic	TRW
	88000	C	C1	P	9/5/95	Basic Communications Concepts	KLH
VHF COMM	88558	P	CP47	P	12/20/95	AN/GRR-23, AN/GRT-21	KLH
UHF COMM	88559	P	CP48	P	12/27/95	AN/GRR-24, AN/GRT-22	KLH
COMM EQUIP.	88560	P	CP49	P	1/15/96	Amplifiers and Audio Equipment	VDD
COMM EQUIP.	88563	P	CP52	P	1/18/96	Control and Monitoring	VDD
COMM EQUIP.	88562	P	CP51	P	1/18/96	Control Site Wiring (Remote Site)	VDD
GS	47703	C		P	2/2/96	Glideslope, Mark 1 D/E/F	RTA
	88100	C	E1	P	2/14/96	Electrical Principles	BTH
MALSR	40413	C		P	3/9/96	MALSR with RAIL (AVW)	RTA
CCCH	40419	C		P	10/6/99	HOCSR for Technicians	RTA R/A
CCCH		O		P	11/22/99	HOCSR OJT (Locally Developed)	BTH BTH
CFAD	88926	P	DP25	P	12/9/99	CRAD/CFAD/DRAD	RTA N/A

Notes: Instructions for completing this form are in Order 3400.3.

1/ If other than regular certification, enter (I) for Interim or (T) for Temporary, (R) for Remote, and (I/R) for Interim Remote.
2/ Course Number, CPMIS Number or "INF" for Informal Training.
3/ Performance Exam No. or PEXAM for Performance Examination, EXP for Experience, PC for Prior Certification, N/A for Not Applicable.
4/ Denote type of action in the "Remarks" column.
5/ Enter "C" if pertaining to Concepts/Theory-of-operations, "P" if pertaining to Performance, or "O" if pertaining to OJT.
6/ Enter "P" for Passed or "F" Failed.

APPENDIX 1. LISTING OF FORMS (CONTINUED)

FIGURE 2-2. SAMPLE FAA FORM 3400-3, CERTIFICATION AUTHORITY

AF PERSONNEL ☒ CERTIFICATION ☐ VERIFICATION AUTHORITY AND RELATED TRAINING RECORD							
1. EMPLOYEE'S NAME Morgan, Donald P.		2. SOCIAL SECURITY NUMBER 123-45-6789			3. SERIES FV-2101		
4. SYSTEM / SUBSYSTEM / EQUIPMENT or SERVICE 1/	314JA GS (R)	314NC LOC (R)	315GA MM (R)	**NOTE 2** TNIFR (I/R)			
5. THEORY-OF-OPERATIONS QUALIFICATION 2/	**NOTE 1** XXXXX	**NOTE 1** XXXXX	**NOTE 1** XXXXX	**NOTE 1** XXXXX			
6. DATE QUALIFIED	09/20/00	09/20/00	09/20/00	09/20/00			
7. INITIALS	YMB	YMB	YMB	[signature]			
8. OJT DATE QUALIFIED	**NOTE 1** 10/17/00	**NOTE 1** 10/17/00	**NOTE 1** 10/17/00	**NOTE 1** 10/17/00			
9. INITIALS	YMB	YMB	YMB	[signature]			
10. PERFORMANCE QUALIFYING METHOD 3/	**NOTE 1** PEXAM	**NOTE 1** PEXAM	**NOTE 1** PEXAM	N/A			
11. DATE QUALIFIED	11/16/00	11/16/00	11/16/00	N/A			
12. INITIALS	YMB	YMB	YMB	[signature]			
13. DATE AUTHORITY ACQUIRED	11/20/00	11/20/00	11/20/00	12/14/00			
14. DATE AUTHORITY REVOKED							

15. CHANGE OF STATION, ANNUAL REVIEW AND VALIDATION RECORD				
EMPLOYEE DUTY STATION	DATE OF ACTION	REMARKS 4/	AF OFFICIAL SIGNATURE	AF OFFICIAL RTG. SYM.
XOCC	11/20/00	Remote Regular Certification Granted On GS (MK 20 – Capture Effect).	Brenda T. Jones	Manager, XOCC
XOCC	11/20/00	Remote Regular Certification Granted On LOC (MK 20 – Log Periodic).	Brenda T. Jones	Manager, XOCC
XOCC	11/20/00	Remote Regular Certification Granted on MM (MK 20 – Middle Marker).	Brenda T. Jones	Manager, XOCC
XOCC	12/01/00	Page 1 retyped to be IAW 3400.3H	[signature]	Training Specialist, XOCC
XOCC	12/14/00	Interim Remote Certification Granted On TNIFR (Service) – No PEXAM available.	[signature]	Acting Manager, XOCC

FAA Form 3400-3 (11-01) Supersedes Previous Editions NSN 0052-00-648-4004

NOTE 1: RMM Theory of Operations, OJT and PEXAMS are currently under development.

NOTE 2: New Service Certification Acronym per 6000.15C

APPENDIX 1. LISTING OF FORMS (CONTINUED)

FIGURE 2-2. SAMPLE FAA FORM 3400-3, CERTIFICATION AUTHORITY (CONTINUED)

16. RECORD OF RELATED TRAINING AND EXAMINATION RESULTS							
SYSTEM / SUBSYSTEM/ EQUIPMENT or SERVICE	CPMIS or COURSE NUMBER	TRAINING OR EXAMINATION				REMARKS	INITIALS
		TYPE 5/	EXAM NUMBER	RESULTS 6/	DATE COMPLETED		
	44715	C		P	5/16/00	ILS Theory – PVE 110	YMB
	40283	C		P	7/12/00	ILS Concepts Theory of Instrument Landing Systems	YMB
ILS MK 20	**NOTE 1** XXXXX	C	**NOTE 1** XXXXX	P	9/20/00	MK 20 ILS – Remote Maintenance Monitoring	YMB
ILS MK 20	**NOTE 1** XXXXX	O	**NOTE 1** XXXXX	P	11/17/00	MK 20 ILS – National OJT Package Remote Maintenance Monitoring	YMB
ILS MK 20	**NOTE 1** XXXXX	P	**NOTE 1** XXXXX	P	11/20/00	MK 20 ILS – ILS Performance Examination Remote Maintenance Monitoring	YMB

Notes: Instructions for completing this form are in Order 3400.3.

1/ If other than regular certification, enter (I) for Interim or (T) for Temporary, (R) for Remote, and (I/R) for Interim Remote.
2/ Course Number, CPMIS Number or "INF" for Informal Training.
3/ Performance Exam No. or PEXAM for Performance Examination, EXP for Experience, PC for Prior Certification, N/A for Not Applicable.
4/ Denote type of action in the "Remarks" column.
5/ Enter "C" if pertaining to Concepts/Theory-of-operations, "P" if pertaining to Performance, or "O" if pertaining to OJT.
6/ Enter "P" for Passed or "F" Failed.

APPENDIX 1. LISTING OF FORMS (CONTINUED)

FIGURE 3. Instructions for Preparing FAA Form 3400-5,

Certification Responsibility.

1. The use of Certification Responsibility, FAA Form 3400-5 (or automated FAA 3400-5) is mandatory when certification responsibility is assigned to an FAA technical specialist.

2. The "Initial Assignment" is defined as the first time responsibilities are assigned to an employee in a unit/System Support Center (SSC). The "Position Description No." and the "Revision No" are not required to be populated.

3. **Type/Acronym Column:** Show the type of system/subsystem or service as indicated in Order 6000.15 for which certification responsibility is assigned; i.e., ASR, GS, LOC, VASI, ATCT, ILS, CFAD.

4. **Ident or Location Column:** Used for the official 3- or 4-letter station identifier for the system/subsystem/ equipment or service identified in Column 1; i.e., CHI, BOS, OKC, ACY, JFKB. For assigning multiple certification responsibilities on specific system/subsystem/ equipment or service types within a SMO, leave Column 2 blank. List the 3- or 4-letter station identifiers in the "Special Instructions/Restrictions/Limitations/Remarks" block in the comment section key to remarks.

5. **FIC/Acronym Column:** Enter the appropriate 5 digit Facility Identification Code (FIC) as listed in Order 1375.4. For service certification, leave the column blank.

6. **Certification Responsibility Column:** Shall be one of those on the back of the form that best describes the certification responsibility assigned to the technical specialist.

7. **Starting Column:** Shall show the effective starting dates of the certification responsibility assignments for the system/subsystem/equipment or service identified in Columns 1 and 2.

8. **Ending Column:** Shall show the dates the certification responsibility assignments are terminated, regardless of the reason. An appropriate entry shall be made in Column 7 to explain why the assignments have been withdrawn. If any additional remarks are required, these shall be inserted on the back of the form in the space indicated.

9. **Comments Column:** Will be used for comments. If "None", so state. In other cases, it may reflect "See Remarks."

10. **Special Instructions/Restrictions/Limitations/Remarks Block**: Remarks shall be pertinent to the certification responsibility assigned.

11. Two examples are shown. Figure 3-1, illustrates an initial assignment. Figure 3-2 illustrates a revision.

12. In the event of multiple pages, signatures are only required on the last page.

13. Superseded forms shall be annotated with a cancellation date corresponding to the effective date of the new FAA Form 3400-5.

APPENDIX 1. LISTING OF FORMS (CONTINUED)

FIGURE 3-1. SAMPLE OF FAA FORM 3400-5, CERTIFICATION RESPONSIBILITY-INITIAL

CERTIFICATION RESPONSIBILITY	TYPE ("X" one)	X	INITIAL ASSIGNMENT	PAGE NO 1 of 1
			REVISION NO.	DATE 7/3/96
			REVOCATION	
To: (Employee name) Doe, Jacqueline A.	Location ABC SSC			POSITION DESCRIPTION NO. XXXXX
As recorded on your FAA Form 3400-3, AF Personnel Certification/Verification Authority and Related Training Record, you have demonstrated your proficiency on the equipment listed below and are hereby assigned certification responsibility for this equipment. The kinds and level of responsibility delegated to you are shown by code designations which are explained on the reverse side of this form. If you have any question concerning these responsibilities, contact your Supervisor.				IMMEDIATE SUPERVISOR James R. Shorts LOCATION / TELEPHONE NO. ABC SSC/ 555-888-8888

SYSTEM/SUBSYSTEM/ EQUIPMENT or SERVICE				EFFECTIVE DATES		COMMENTS (If "NONE", so state)
TYPE ACRONYM	IDENT OR LOCATION	FIC ACRONYM	CERTIFICATION RESPONSIBILITY	STARTING	ENDING	(If insufficient space, key to special instructions below or on reverse of form)
LOC		314CS	FC	7/10/96		NOTE 1 (MK-1F LOG
LOC	ABCA	314NC	FC	7/10/96	8/20/96	TEMP (MK-20 LOG
ILS	ABC		FC	7/10/96		SERVICE (I)
RTR	ABC	442AA	FC	7/10/96		NONE
MALSR	ABC	3326E	FC	7/10/96		INTERIM (AVW)

Special Instructions/Restrictions/Limitations/Remarks (No additional responsibilities can start before the date of this form).

NOTE 1: ABC/DDV/HLD/SMJ/WTR
SUPERCEDED BY 3400-5 DATED 12/1/97

EMPLOYEE: I understand the nature and extent of the responsibilities assigned in this document.

Typed Name	Title	Signature
Jacqueline A. Doe	ATSS	Jacqueline A Doe
IMMEDIATE SUPERVISOR Typed James R. Shorts	Supervisor	James R Shorts
SMO MANAGER Typed Name Robert R. Smith	Mgr. ABC SMO	Robert Smith

FAA Form 3400-5 (1/98) Supersedes Previous Edition

NSN 0052-00-842-8001

APPENDIX 1. LISTING OF FORMS (CONTINUED)

FIGURE 3-2. SAMPLE OF FAA FORM 3400-5,
CERTIFICATION RESPONSIBILITY-REVISION

CERTIFICATION RESPONSIBILITY	TYPE ("X" one)		INITIAL ASSIGNMENT	PAGE NO 1 of 1
		X	REVISION NO. 1	DATE 12/01/97
			REVOCATION	
To: (Employee name) Doe, Jacqueline A.	Location ABC SSC			POSITION DESCRIPTION NO. XXXXX
As recorded on your FAA Form 3400-3, AF Personnel Certification/Verification Authority and Related Training Record, you have demonstrated your proficiency on the equipment listed below and are hereby assigned certification responsibility for this equipment. The kinds and level of responsibility delegated to you are shown by code designations which are explained on the reverse side of this form. If you have any question concerning these responsibilities, contact your Supervisor.				IMMEDIATE SUPERVISOR James R. Shorts LOCATION / TELEPHONE NO. ABC SSC/ 555-888-8888

SYSTEM/SUBSYSTEM/EQUIPMENT or SERVICE				EFFECTIVE DATES		COMMENTS(If "NONE", so state)
TYPE ACRONYM	IDENT OR LOCATION	FIC ACRONYM	CERTIFICATION RESPONSIBILITY	STARTING	ENDING	(If insufficient space, key to special instructions below or on reverse of form)
LOC		314CS	FC	7/10/96		NOTE 1 (MK-1F LOG PERIODIC)
ILS	ABC		FC	7/10/96		SERVICE (I)
RTR	ABC	442AA	FC	7/10/96		NONE
MALSR	ABC	3326E	FC	1/10/00		(AVW)
CFAD	ABC		FC	1/10/00		SERVICE

Special Instructions/Restrictions/Limitations/Remarks (No additional responsibilities can start before the date of this form).

NOTE 1: ABC/DDV/HLD/SMJ/WTR

EMPLOYEE: I understand the nature and extent of the responsibilities assigned in this document.

Typed Name	Title	Signature
Jacqueline A. Doe	ATSS	Jacqueline A Doe
IMMEDIATE SUPERVISOR Typed James R. Shorts	Title Supervisor	Signature James R Shorts
SMO MANAGER Typed Name Robert A. Smith	Title Mgr. ABC SMO	Signature Robert Smith

FAA Form 3400-5 (1/98) Supersedes Previous Edition

NSN 0052-00-842-8001

APPENDIX 1. LISTING OF FORMS (CONTINUED)

FIGURE 3-2. SAMPLE OF FAA FORM 3400-5 (CONTINUED)

CODE DESIGNATIONS

CERTIFICATION RESPONSIBILITY

FC	- **Full Certification** responsibility for complete system.
LC	- **Limited Certification** responsibility-subject to listed limitations.
SC	- **Subsystem Certification** responsibility-limited to listed equipment.

U.S. GPO:1992-715-142/60304

APPENDIX 1. LISTING OF FORMS (CONTINUED)

FIGURE 3-3. SAMPLE OF FAA FORM 3400-5,

CERTIFICATION RESPONSIBILITY-INITIAL

CERTIFICATION RESPONSIBILITY	TYPE ("X" one)	X	INITIAL ASSIGNMENT	PAGE NO 1 of 1
			REVISION NO.	DATE
			REVOCATION	11/01/00
To: (Employee name) Morgan, Donald P.	XOCC			POSITION DESCRIPTION NO. XXXXX
As recorded on your FAA Form 3400-3, AF Personnel Certification/Verification Authority and Related Training Record, you have demonstrated your proficiency on the equipment listed below and are hereby assigned certification responsibility for this equipment. The kinds and level of responsibility delegated to you are shown by code designations which are explained on the reverse side of this form. If you have any question concerning these responsibilities, contact your Supervisor.				IMMEDIATE SUPERVISOR Betty J. White LOCATION / TELEPHONE NO. XOCC/ 777-222-8888

SYSTEM/SUBSYSTEM/ EQUIPMENT or SERVICE				EFFECTIVE DATES		COMMENTS (If "NONE", so state)
TYPE ACRONYM	IDENT OR LOCATION	FIC ACRONYM	CERTIFICATION RESPONSIBILITY	STARTING	ENDING	(If insufficient space, key to special instructions below or on reverse of form)
GS		314JA	FC	11/20/00		Note 1. Remote Maintenance Monitoring
LOC		314NC	FC	11/20/00		Note 2. Remote Maintenance Monitoring
MM		315GA	FC	11/20/00		Note 3. Remote Maintenance Monitoring

Special Instructions/Restrictions/Limitations/Remarks (No additional responsibilities can start before the date of this form).

Note 1. ABC SMO, DEF SMO, GHI SMO, JKL SMO, MNO SMO, PQR SMO, STU SMO, VWX SMO
Note 2. ABC SMO, DEF SMO, GHI SMO, JKL SMO, MNO SMO, PQR SMO, STU SMO, VWX SMO
Note 3. ABC SMO, DEF SMO, GHI SMO, JKL SMO, MNO SMO, PQR SMO, STU SMO, VWX SMO

EMPLOYEE: I understand the nature and extent of the responsibilities assigned in this document.

Typed Name	Title	Signature
Donald P. Morgan	ATSS	Donald P Morgan
IMMEDIATE SUPERVISOR Typed Betty J. White	Title Supervisor	Signature Betty J. White
SMO MANAGER Typed Name Brenda T. Jones	Title Manager, XOCC	Signature Brenda T Jones

FAA Form 3400-5 (1/98) Supersedes Previous Edition

NSN 0052-00-842-8001

APPENDIX 1. LISTING OF FORMS (CONTINUED)

FIGURE 3-4. SAMPLE OF FAA FORM 3400-5,
CERTIFICATION RESPONSIBILITY-REVISION

CERTIFICATION RESPONSIBILITY	TYPE ("X" one)		INITIAL ASSIGNMENT	PAGE NO 1 of 1
		X	REVISION NO. 1	DATE 12/15/00
			REVOCATION	
To: (Employee name) Morgan, Donald P.	Location XOCC			POSITION DESCRIPTION NO. XXXXX
As recorded on your FAA Form 3400-3, AF Personnel Certification/Verification Authority and Related Training Record, you have demonstrated your proficiency on the equipment listed below and are hereby assigned certification responsibility for this equipment. The kinds and level of responsibility delegated to you are shown by code designations which are explained on the reverse side of this form. If you have any question concerning these responsibilities, contact your Supervisor.				IMMEDIATE SUPERVISOR Betty J.White LOCATION / TELEPHONE NO. XOCC/777-222-8888

SYSTEM/SUBSYSTEM/ EQUIPMENT or SERVICE				EFFECTIVE DATES		COMMENTS (If "NONE", so state)
TYPE ACRONYM	IDENT OR LOCATION	FIC ACRONYM	CERTIFICATION RESPONSIBILITY	STARTING	ENDING	(If insufficient space, key to special instructions below or on reverse of form)
GS		314JA	FC	11/20/00		Note 1. Remote Maintenance Monitoring
LOC		314NC	FC	11/20/00		Note 2. Remote Maintenance Monitoring
MM		315GA	FC	11/20/00		Note 3. Remote Maintenance Monitoring
TNIFR		SERVICE	FC	12/15/00		Note 4. SERVICE (Interim Remote)

Special Instructions/Restrictions/Limitations/Remarks (No additional responsibilities can start before the date of this form).

Note 1. ABC SMO, DEF SMO, GHI SMO, JKL SMO, MNO SMO, PQR SMO, STU SMO, VWX SMO
Note 2. ABC SMO, DEF SMO, GHI SMO, JKL SMO, MNO SMO, PQR SMO, STU SMO, VWX SMO
Note 3. ABC SMO, DEF SMO, GHI SMO, JKL SMO, MNO SMO, PQR SMO, STU SMO, VWX SMO
Note 4. ABC SMO, DEF SMO, GHI SMO, JKL SMO, MNO SMO, PQR SMO, STU SMO, VWX SMO

EMPLOYEE: I understand the nature and extent of the responsibilities assigned in this document.

Typed Name	Title	Signature
Donald P. Morgan	ATSS	Donald P. Morgan
IMMEDIATE SUPERVISOR Typed Betty J. White	Title Supervisor	Signature Betty J. White
SMO MANAGER Typed Name Brenda T. Jones	Title Manager, XOCC	Signature Brenda T Jones

FAA Form 3400-5 (1/98) Supersedes Previous Edition

NSN 0052-00-842-8001

APPENDIX 1. LISTING OF FORMS (CONTINUED)

FIGURE 3-4. SAMPLE OF FAA FORM 3400-5 (CONTINUED)

CODE DESIGNATIONS

CERTIFICATION RESPONSIBILITY

FC	- **Full Certification** responsibility for complete system.
LC	- **Limited Certification** responsibility-subject to listed limitations.
SC	- **Subsystem Certification** responsibility-limited to listed equipment.

* U.S. GPO:1992-715-142/60304

APPENDIX 1. LISTING OF FORMS (CONTINUED)

FIGURE 4. Instructions for Preparing FAA Form 3400-6, Certification Authority Requirements Agreement.

1. The Certification Authority Requirements Agreement contains the following information:
   a. The reasons for the requirement.
   b. List of certification authorities required.
   c.[1] List of training required.
   d. List of examinations required.
   e. List of OJT requirements.
   f. Conditions.
   g. Employee's acknowledgment.
   h. Time allowed for completion.
   i. Signature of the employee, supervisor, and SMO/OCC manager.

2. The supervisor must prepare and attach a detailed training plan on FAA Form 3000-14, Airway Facilities Training Plan, that lists all the requirements in order and a realistic schedule completion date for each item.

3. A copy of the agreement and training plan must be given to the employee. Any changes/revisions to the certification authority requirements agreement must be in writing and attached to the original agreement and a copy provided to the employee.

---

[1] List either the resident training course or the theory-of-operations (concepts) requirement, but not both, on FAA Form 3400-6. If the training method is operational, it must be stated in the Remarks section on FAA Form 3000-14.

APPENDIX 1. LISTING OF FORMS (CONTINUED)

FIGURE 4-1. SAMPLE FAA FORM 3400-6

AIRWAY FACILITIES MAINTENANCE PERSONNEL
CERTIFICATION PROGRAM

CERTIFICATION AUTHORITY REQUIREMENTS AGREEMENTS

NAME (Last, First, MI, Typed)	**POSITION TITLE**
Doe, Jaqueline A.	XXXXXX
ORGANIZATIONAL UNIT AND LOCATION	**SERIES AND GRADE**
ABC SMO	FG-2101-9
	DATE
	October 3, 1994

I acknowledge the requirement to obtain certification authority under the provisions of the Airway Facilities Maintenance Personnel Certification Program on the systems/subsystems/equipment and services listed below for the following reason(s):

("X" appropriate box(es) below)

- [X] New Airway Facilities employee
- [ ] Change in equipment requiring new Authority
- [ ] Workload adjustment to satisfy operational need (added duties)
- [ ] Reassignment or selection to a new position or location
- [ ] Other (Explain)

SYSTEMS/SUBSYSTEMS/EQUIPMENT OR SERVICE

Localizer
RTR
ILS

TRAINING

RESIDENT

CP: AC/DC Transients, 40150
CP: Digital Logic, 40151
CP: Antennas and Transmission Lines, 40152
CP: Solid State Devices, 40153
Communications Equipment, 47502 (CBI)
ILS Concepts, 40233
Localizer, MK-1F, 47702 (CBI)

NON-RESIDENT

44504, Electronics Fundamentals and Engineering Math
47001, Troubleshooting Techniques
44715, ILS Theory

TRAINING COMPLETION TARGET DATE 9/1/95

CERTIFICATION EXAMINATIONS

THEORY-OF-OPERATION (CONCEPTS)

PERFORMANCE

CP47, VHF Communications
CP48, UHF Communications
CP49, Amplifiers and Audio Equipment
CP51, Communications Equipment Facility Wiring (Remote Site)
CP52, Control and Monitoring
NP53, Localizer, MK-1F

APPENDIX 1. LISTING OF FORMS (CONTINUED)

FAA Form 3400-6 (1-98) Supersedes Previous Edition NSN 0052-00-843-0001

FIGURE 4-1. SAMPLE FAA FORM 3400-6 (CONTINUED)

OTHER REQUIREMENTS

OJT WORK ASSIGNMENTS, ETC.

RTR, 80 hours assigned using local OJT package for ABC RTR
Localizer, MK-1F, 20 hours assigned using local OJT package for ABC LOC

CONDITIONS

1. The training and certification examination requirements listed are to be satisfactorily completed.
2. Time extensions on any of the listed requirements are at the discretion of the SMO manager. It is expected that extensions will be granted if delays are beyond the control of the employee. In the event resident training is not available, the employee is expected to complete the appropriate theory-of-operation examinations within the time frame specified.
3. Training and study time for completion of this agreement will be permitted in accordance with agency policy.
4. Retakes of examinations will be in accordance with the current version of Order 3400.3, Airway Facilities Maintenance Personnel Certification Program.
5. The employee's continued assignment to the position will be contingent upon satisfactory completion of the requirements listed in this agreement within the time frame specified.

EMPLOYEE ACKNOWLEDGEMENT

I have reviewed this requirement, as specified in the Airway Facilities Maintenance Personnel Certification Program Directives, and acknowledge that I will be allowed the number of months shown to complete the prescribed training and examinations and to obtain certification authority.

Should I fail to obtain the listed certification authority by that time, I understand that I cannot be retained in this position

NO. MONTHS: 11

EMPLOYEE'S SIGNATURE: Jacqueline A Doe DATE: Oct. 3, 1994

IMMEDIATE SUPERVISOR

Successful completion of the training and certification requirements listed above will technically qualify the above named employee for the required certification authority.

IMMEDIATE SUPERVISOR'S SIGNATURE: James R. Short DATE: 10-3-94

SMO MANAGER

The above named employee will be provided with the opportunity to acquire the prescribed training, or with the study time as indicated in Condition 3 above, to prepare for theory-of-operation and performance examinations specified to meet the certification authority requirements listed in this document.

SMO MANAGER'S SIGNATURE: Robert Smith DATE: Oct. 3, 1994

COPY DISTRIBUTION

"X" APPROPRIATE BOX

CC:						
	X	EMPLOYEE	X	SUPERVISOR		SMO MANAGER

FAA Form 3400-6 (1-98) Supersedes Previous Edition SN 0052-00-843-0001

APPENDIX 1. LISTING OF FORMS (CONTINUED)

FIGURE 5. Instructions for Preparing FAA Form 3000-14, Airway Facilities Training Plan

The Airway Facilities Training Plan, FAA Form 3000-14, is used to develop a written training plan for each employee requiring training.

In preparing the training plan, the supervisor should check the following:

a. CPMIS (as the official source for courses, hours, and prerequisites).

b. Order 3400.3 for the available examinations, hours, and prerequisites.

c. Program Support Specialist (PSS) availability for training and dates.

d. The amount of duty time that will be permitted for study.

NOTE: Refer to the latest version of Order 3000.10, Airway Facilities Maintenance Technical Training Program for instructional information.

APPENDIX 1. LISTING OF FORMS (CONTINUED)

FIGURE 5-1. FAA FORM 3000-14, AF TRAINING PLAN

Airway Facilities Training Plan		
Name	**Location**	
Title/Grade	**Date**	
Subject/Course	**Completion Date**	
	Schedule	**Actual**
I acknowledge that a review of this training plan has been accomplished as required by the Airway Facilities Technical Training Program.		
Employee's Signature and Date	**Supervisor's Signature and Date**	
Remarks:		

FAA Form 3000-14 (1-84)

NSN 0052-00-888-4000

APPENDIX 1. LISTING OF FORMS (CONTINUED)

FIGURE 6. Instructions for Preparing FAA Form 3400-15, Performance Examination Cover Sheet

1. The Performance Examination Cover Sheet, FAA Form 3400-15, shall be used to document all performance examinations. This form contains three sections: A, B, and C.

2. Section A is the request for the examination and verifies that all training and OJT prerequisites are completed. This section shall contain the following information:

   a. PMIS number.

   b. Examination number/complete title/Facility Identification Code (FIC), and estimated time.

   c. Examinee name/SSC location, series and grade, and SSN.

   d. The signature of the examinee's supervisor.

3. Section B is the official designation of examiner and verifies that the examiner is qualified to administer the examination. This section also grants the examiner certification responsibility for the purpose of administering the examination. It is recommended that this form be routed through the examiner's supervisor for proper coordination. This section shall contain the following information unless otherwise noted:

   a. Examining official's name.

   b. Name and title of examining official's supervisor.

   c. Signature of either the MPS or the PSS.

   d. Signature of the SMO/OCC manager.

4. Section C is utilized by the examining official to record the examination results. It shall contain the following information:

   a. Major equipment identification, type, and location.

   b. Results of examination.

   c. Signature and title of the designated examiner and date examination is completed.

5. The reverse side of the form shall be used by the examiner to record any failed items. Additional comments related to the examination; e.g. observer signature, may also be entered here.

APPENDIX 1. LISTING OF FORMS (CONTINUED)

FIGURE 6-1. SAMPLE FAA FORM 3400-15, PERFORMANCE COVER SHEET

PERFORMANCE EXAMINATION COVER SHEET

Airway Facilities Maintenance Personnel Certification Program

88754
PMIS#

A

NP54, ILS, Wilcox Mark 1F, NRGC, FA-9919 FIC 314AU
Exam Number/Title

8 Hours
Estimated Time

Doe, Jaqueline A. / ABC SMO
Examinee (Name/SSC)

FG-2101-12
Series & Grade

123-45-6789
SSN

I certify that the examinee has met all training and OJT prerequisites.

James R. Short
Examinee's Supervisor (Signature)

3/02/96
Date

B

To: Judy M. Crain
Examining Official (Name)

Thru: William J. Jackson, MGR, ABC MTS
Supervisor (Name/Title)

I certify that the examiner has met all prerequisites and is qualified to administer the exam.

Gerald E. Byrd
MPS/PSS (Signature)

3/5/96
Date

In accordance with Order 3400.3, you are designated as examiner. This designation grants you certification responsibility for the purpose of administering this examination. As an examiner, you should familiarize yourself with the current edition of Order 3400.3 and any local orders. Any failed items shall be listed on the reverse side of this sheet. In the event of a complete failure, test equipment must also be listed on the reverse. This designation will expire three (3) months from the date of the SMO Manager's signature.

Robert Smith
Manager (Signature/SMO)

3/6/96
Date

C

Major Equipment Identification	Type	Facility Location
Transmitter Unit	FA-9927	ABC GS
Monitor Unit	FA-9921	ABC GS
Control Unit	FA-9906	ABC GS
Power Supply	FA-9911	ABC GS
Combining Unit	FA-9926	ABC GS

Results:

39	3	95	7.5 Hours	Pass
Total #	# Unsat.	% Satisfactory	Total time	Pass/Fail

Judy M. Crain
Examining Official (Signature)

TSS
Title

4/2/96
Date Exam Completed

FAA Form 3400-15 (1/98) Supersedes Previous Editions

NSN 0052-00-921-4000

APPENDIX 2. AUTOMATION DATA FIELDS

Figure 1. Personnel Certification/Verification and Related Training Automation Data Fields

The data fields in table 1 shall be used when developing automated personnel certification databases thus reducing the workload in converting the data into a national database

Table 1. Data Fields

Field Description	Field Length
SSE Type (System/Subsystem/Equipment or Service)	5
SSE Identification	4
SSE Short Name	8
SSE Equipment Identification	6
Cost Center Code (CCC)	6
SSN	9
Certification Acronym	10 (from Order 6000.15)
Facility Type	10 (from FSEP, if available, otherwise use acronym)
Location Identifier	10
Position Description Number	4 (MEM, MEMA, etc.)
Date Certification Responsibility Begins	6 (YYMMDD)
Date Certification Responsibility Ends	6 (YYMMDD)
Date Verification Responsibility Begins	6 (YYMMDD)
Date Verification Responsibility Ends	6 (YYMMDD)
Type Responsibility	4 (FC, SC, LC)
Date Qualified for Theory	6 (YYMMDD)
Initials of Theory Verifier	3
Date Certification Authority Granted	6 (YYMMDD)
Type Certification Authority Granted	1 (R=Regular, I=Interim, T=Temporary)
Date Authority Revoked	6 (YYMMDD)
Date Experience Commenced	6 (YYMMDD)
Date Experience Completed	6 (YYMMDD)
Performance Qualification Method	5 (PEXAM, EXP, etc.)
Date Performance Qualified	6 (YYMMDD)
Initials for Performance Examiner	3
FAA Form 3400-5 Remarks	22
Course or Examination Identification (Theory)	8
Course or Examination Identification (Performance)	8
Last Name	15
First Name	15
Grade – Series	10
Duty Station	30
Immediate Supervisor	15
Home Phone Number	12
Limitations/Restrictions	48
Address	30
City	20
State	2
Zip	10
Routing Symbol	5
Date of Review	6

APPENDIX 3. AIRWAY FACILITIES MAINTENANCE PERSONNEL CERTIFICATION PROGRAM EXAMINATIONS

1. The figures contained in appendix 3 are issued with this order. The most current official figures are located on the FAA Academy AF Training Bulletin Board and are available for review and downloading. This electronic procedure provides the user with the most current information available (see note below). This appendix lists the following tables in association with examinations in the personnel certification program.

a. Figure 1. Concepts/Theory-of-Operations Examination Equivalent Training/Examinations.

b. Figure 2. Current Concepts/Theory-of-Operations Examinations.

c. Figure 3. Current Performance Examinations.

d. Figure 4. Previous Concepts/Theory-of-Operations Examinations.

e. Figure 5. Previous Performance Examinations.

NOTE: Any additions, deletions, or corrections to this appendix shall be forwarded to the Airway Facilities Training Operations and Technologies Support Branch, AMA-405, through the appropriate regional AF division AXX-400, training representative. No additions, deletions, or corrections will be posted without prior approval from the FAA Headquarters AF Training Division. Upon approval, this information will be added to appendix 3. This appendix will be maintained and updated by AMA-405 and made available for downloading via the FAA Academy AF Training Bulletin Board. All additions, deletions, or corrections will be annotated with an asterisk for easy reference. The appendices listed on the FAA Academy AF Training Bulletin Board shall be the official source for Order 3400.3.

2. The appendices will be reviewed monthly and updated as required. A new revision date shall be added to the appendix, and a notice will be posted on the FAA Academy AF Training Bulletin Board indicating the revision date, name, and location of the file. The file names to be used shall be as follows:

APPENDIX	FILENAME	EXTENSION
Appendix 3	APP3-038	.doc

(Filename shows the latest revision date; i.e., "03" indicates the month and "8" indicates the year.)

APPENDIX 3. AIRWAY FACILITIES MAINTENANCE PERSONNEL CERTIFICATION PROGRAM EXAMINATIONS

1. The figures contained in appendix 3 are issued with this order. The most current official figures are located on the FAA Academy AF Training Bulletin Board and are available for review and downloading. This electronic procedure provides the user with the most current information available (see note below). This appendix lists the following tables in association with examinations in the personnel certification program.

a. Figure 1. Concepts/Theory-of-Operations Examination Equivalent Training/Examinations.

b. Figure 2. Current Concepts/Theory-of-Operations Examinations.

c. Figure 3. Current Performance Examinations.

d. Figure 4. Previous Concepts/Theory-of-Operations Examinations.

e. Figure 5. Previous Performance Examinations.

NOTE: Any additions, deletions, or corrections to this appendix shall be forwarded to the Airway Facilities Training Operations and Technologies Support Branch, AMA-405, through the appropriate regional AF division AXX-400, training representative. No additions, deletions, or corrections will be posted without prior approval from the FAA Headquarters AF Training Division. Upon approval, this information will be added to appendix 3. This appendix will be maintained and updated by AMA-405 and made available for downloading via the FAA Academy AF Training Bulletin Board. All additions, deletions, or corrections will be annotated with an asterisk for easy reference. The appendices listed on the FAA Academy AF Training Bulletin Board shall be the official source for Order 3400.3.

2. The appendices will be reviewed monthly and updated as required. A new revision date shall be added to the appendix, and a notice will be posted on the FAA Academy AF Training Bulletin Board indicating the revision date, name, and location of the file. The file names to be used shall be as follows:

APPENDIX	FILENAME	EXTENSION
Appendix 3	APP3-038	.doc

(Filename shows the latest revision date; i.e., "03" indicates the month and "8" indicates the year.)

APPENDIX 3. AIRWAY FACILITIES MAINTENANCE PERSONNEL CERTIFICATION PROGRAM EXAMINATIONS (CONTINUED)

Figure 1. Theory-of-Operations Examinations and Equivalent Training/Examinations (Continued)

PMIS NO.	EXAM ID NO.	ACT/ IN-ACT.	CONCEPT EXAMINATION TITLE	EQUIV CRS/ EXAM	EQUIVALENT COURSE OR EXAMINATION TITLE	ACT/ INACT.
88000	C1	A	Basic Communications Equipment	40001	Communications Equipment	I
				40007	Communications Equipment	I
				40029	(CBI) Communications Equipment	I
				47502	(CBI) Communications Equipment	I
				47504	(CBI) Communications Equipment	A
				FC100	Communications Equipment	I
				--	FCC General Radiotelephone License	
				--	FCC General Radiotelephone License-Radar Endorsement	
88007	C2	A	Recorders	40001	Communications Equipment	I
				44002	Multichannel Recorders	I
				44006	Basic Multichannel Recorder Theory	A
				45003	Multichannel Recorders	I
				88003	Recorders (C1R)	I
				FC160	Multichannel Recorders	
88008	C3	I	RVR (IRA)	40209	Runway Visual Range Equipment-IRA System	I
				40229	Runway Visual Range Equipment (IRA System)	I
				FC198	RVR	I
88009	C4	A	Runway Visual Value (RVV)	FC198	RVR	I
88010	C5	A	RBC	46013	Rotating Beam Ceilometer	I
88011	C6	A	UVDF (Doppler DF) and Remoting Equipment 5571/5572	--	N5 plus N5D exams, superseded	I
				40210	VHF/UHF DF (FA-5530)	
				40225	VHF/UHF Doppler Direction Finder	I
				88213	UVDF (Doppler) (N6)	I
				FC145	VHF/UHF Doppler DF	I
88012	C6R	I	UHF/VHF Direction Finder (Remote Equipment)	40227	Remoting Equipment for VHF Direction Finder	I
88014	C8	A	Runway Visual Range (RVR/SSR Control End Equipment)	40213	Runway Visual Range (RVR) Equipment, Type FA-7861	A
				FC199	RVR FA-7861	I
88016	C10	A	Back-up Emergency Communication (Remote Site)	40008	BUEC System-Remote Site	I
				40027	(CBI) BUEC System-Remote Site	I
				47500	(CBI) BUEC System, Remote Site	A
88017	C11	A	Back-up Emergency Communication (ARTCC)	40009	BUEC System-ARTCC	I
				40028	(CBI) BUEC System-ARTCC Site	I
				47501	(CBI) BUEC System, ARTCC Site	A
88018	C12	A	High Capacity Voice Recorder	40016	High Capacity Voice Recorder (HCVR)	I

APPENDIX 3. AIRWAY FACILITIES MAINTENANCE PERSONNEL CERTIFICATION PROGRAM EXAMINATIONS (CONTINUED)

Figure 1. Theory-of-Operations Examinations and Equivalent Training/Examinations (Continued)

PMIS NO.	EXAM ID NO.	ACT/ IN-ACT.	CONCEPT EXAMINATION TITLE	EQUIV CRS/ EXAM	EQUIVALENT COURSE OR EXAMINATION TITLE	ACT/ INACT.
				45005	High Capacity Voice Recorder (HCVR)	A
88022	C15A	A	Tasker 500 RVR (Computer Only)	40252	Runway Visual Range (RVR) Equipment, Tasker 500	A
88023	C16	A	LLWAS, FA-9980/FA9981/10240	40274	Low-Level Windshear Alert System (LLWAS), FA-10240	I
				47712	(CBI/MM) Low-Level Windshear Alert Sys (LLWAS), FA-10240	A
88024	C17	A	VHF Direction Finder (FA-9964)	40257	Solid-State Direction Finder (DF), Type FA-9964	A
88025	C18	A	Magnasync/Moviola High Capacity Voice Recorder	43010	High Capacity Voice Recorder (HCVR) Maintenance (60 channel)	A
88026	C19	A	Low-Level Wind Shear Alert System Climatronics	40277	Low-Level Windshear Alert System, Climatronics	I
				47711	(CBI/MM) Low-Level Windshear Alert Sys (LLWAS) Climatronics	A
88027	C20	I	Statistical Multiplexers (Paradyne)	43536	Statistical Multiplexers (Paradyne)	I
88028	C21	I	Automatic Network Management System Update (Paradyne)	43538	Automatic Network Management System Update (Paradyne)	I
88029	C22	I	Data Communication Modems Update	43537	Data Communications Modem Update (Paradyne)	I
88030	C23	I	Data Communication Modem (Paradyne)	43529	Data Communications Modem (Paradyne)	I
88031	C24	I	Stat-Mux for SFO	43561	Stat Mux for SFO	I
88032	C25	I	Statistical Multiplexers	43562	Stat Mux for ARTCC	I
88033	C26	A	Direct Access Radar Channel (DARC) Operations	43006	Direct Access Radar Channel (DARC) Operations	A
88034	C27	A	Radio Communications Link Sys Term & Repeater Common Equipment	40332	Radio Communications Link (RCL) Common Equipment	I
				40600	Common Equipment for Radio Communications Link (RCL)	A
88035	C28	A	ICSS Type II Litton	40024	ICSS Type II, Maintenance	A
88036	C29	I	ICSS Type II Litton ACD/VRS	40026	ICSS Litton, Type III	I
88037	C30	I	Automatic Call Director (ACD)/Voice Retrieval System (VRS)	40027	ICSS Litton Type III ACD and VRS	I

APPENDIX 3. AIRWAY FACILITIES MAINTENANCE PERSONNEL CERTIFICATION PROGRAM EXAMINATIONS (CONTINUED)

Figure 1. Theory-of-Operations Examinations and Equivalent Training/Examinations (Continued)

PMIS NO.	EXAM ID NO.	ACT/ IN-ACT.	CONCEPT EXAMINATION TITLE	EQUIV CRS/ EXAM	EQUIVALENT COURSE OR EXAMINATION TITLE	ACT/ INACT.
88038	C31	A	ICSS Model 3080 RDVS	40029	ICSS L/A 3080	A
88039	C32	A	ICSS Large Baseline Rapid Deployment Voice Switch	40036	Rapid Deployment Voice Switch (RDVS) Large System	A
88040	C33A	A	Voice Switching and Control Subsystem (VSCS) Hardware, Test 1	40272	VSCS Hardware Maintenance	A
				48171	VSCS Hardware Maintenance	A
88041	C33B	A	Voice Switching and Control Subsystem (VSCS) Hardware, Test 2	40272	VSCS Hardware Maintenance	A
				48171	VSCS Hardware Maintenance	A
88042	C33C	A	Voice Switching and Control Subsystem (VSCS) Hardware, Test 3	40272	VSCS Hardware Maintenance	A
				48171	VSCS Hardware Maintenance	A
88043	C34	A	Radio Control Equipment	40034	Radio Control Equipment, CSTI	A
				48240	Radio Control Equipment, CSTI	A
88044	C35A	A	VSCS System Overview, Test 1	40289	VSCS System Overview	A
88045	C35B	A	VSCS System Overview, Test 2	40289	VSCS System Overview	A
88046	C36A	A	VSCS Site Software Maintenance, Test 1	40273	VSCS Site Software Maintenance	A
88047	C36B	A	VSCS Site Software Maintenance, Test 2	40273	VSCS Site Software Maintenance	A
88048	C36C	A	VSCS Site Software Maintenance, Test 3	40273	VSCS Site Software Maintenance	A
88100	E1	A	Electrical Principles	40100	Electrical Principles Phase I	I
				40135	(CBI) Electrical Principles	I
				44111	Electrical Principles Phase I	A
				47600	(CBI) Electrical Principles	I
				DFE1	Basic Electricity	I
				DFE21	Facility Electrical Systems	I
				FC220	Electrical Principles	I
				--	FCC General Radiotelephone License	
				--	FCC General Radiotelephone License-Radar Endorsement	
88102	E2	A	Diesel Engine Generator, 550 kW	40129	Diesel Engine Generators, 550 kW	I
* 88103	E3	I	MALS/RAIL/REIL	40123	Visual Landing Aids	I
				40136	(CBI) MALS/RAIL/REIL	I
				44113	MALSR/REIL	A
				47601	(CBI) MALS/RAIL/REIL	I
				88101	VNAS (E1V)	I

APPENDIX 3. AIRWAY FACILITIES MAINTENANCE PERSONNEL CERTIFICATION PROGRAM EXAMINATIONS (CONTINUED)

Figure 1. Theory-of-Operations Examinations and Equivalent Training/Examinations (Continued)

PMIS NO.	EXAM ID NO.	ACT/ IN-ACT.	CONCEPT EXAMINATION TITLE	EQUIV CRS/ EXAM	EQUIVALENT COURSE OR EXAMINATION TITLE	ACT/ INACT.
88104	E4	A	ALS	40106	Visual Navigation Aid System/VNAS	I
				40124	Visual Landing Aids	I
				40137	(CBI) Approach Lighting System	I
				44114	High Intensity Approach Lighting Systems (ALS)	A
				47602	(CBI) Approach Lighting System	I
				88101	VNAS (E1V)	I
88105	E5	A	VASI	40123	Visual Landing Aids	I
				40125	Visual Approach Slope Indicators (Solid State)	I
				40138	(CBI) Visual Approach Slope Indicator	I
				47603	(CBI) Visual Approach Slope Indicator (VASI)	I
				47606	(CBI) Visual Approach Slope Indicator	A
				88101	VNAS (E1V)	I
88106	E6	I	Electrical Principles Phase II	40115	Solid State Fundamentals for Electro-mechanics	I
				40117	ESS Concepts	I
				40126	Electrical Principles Phase II	I
				40135	(CBI) Electrical Principles	I
				47600	(CBI) Electrical Principles	I
88107	E10	A	MALSR/RMM and REIL/RMM	40143	MALSR/REIL	A
88108	E8	A	Exide Uninterruptible Power Supply	40149	Exide Power Conditioning System (PCS) Maintenance	A
				48152	Exide PCS Maintenance	I
88109	E9A	A	ARTCC Critical and Essential Power Systems (ACEPS) Test 1	40140	ARTCC Critical and Essential Power System (ACEPS)	I
				47604	(CBI/MM) ARTCC Critical and Essential Power System (ACEPS)	A
88110	E9B	A	ARTCC Critical and Essential Power Systems (ACEPS) Test 2	40140	ARTCC Critical and Essential Power System (ACEPS)	I
				47604	(CBI/MM) ARTCC Critical and Essential Power System (ACEPS)	A
88111	E9C	A	ARTCC Critical and Essential Power Systems (ACEPS) Test 3	40140	ARTCC Critical and Essential Power System (ACEPS)	I
				47604	(CBI/MM) ARTCC Critical and Essential Power System (ACEPS)	A
88112	E10	A	Dual Mode ALSF-II (Godfrey)	40135	Approach Lighting System with Flashers ALSF-II (Godfrey)	A

APPENDIX 3. AIRWAY FACILITIES MAINTENANCE PERSONNEL CERTIFICATION PROGRAM EXAMINATIONS (CONTINUED)

Figure 1. Theory-of-Operations Examinations and Equivalent Training/Examinations (Continued)

PMIS NO.	EXAM ID NO.	ACT/ IN-ACT.	CONCEPT EXAMINATION TITLE	EQUIV CRS/ EXAM	EQUIVALENT COURSE OR EXAMINATION TITLE	ACT/ INACT.
88113	E12A	A	Kohler Power Systems, Test 1	40154	Kohler Engine Generator Power Systems	A
88114	E12B	A	Kohler Power Systems, Test 2	40154	Kohler Engine Generator Power Systems	A
88208	N4	A	Markers/Homers	40001	Communications Equipment	I
				40007	Communications Equipment	I
				40200	Rho-Theta/TACAN/Principles	I
				40204	Advanced ILS/VOR Principles	I
				40205	VHF Omnirange (VOR)	I
				40234	ILS Tube Type	I
				--	FCC General Radiotelephone License	
				--	FCC General Radiotelephone License-Radar Endorsement	
88215	N8	I	DME Principles	44215	Distance Measuring Equipment (DME) Principles	A
88217	N10	A	VOT Only	40205	VHF Omnirange (VOR)	I
88218	N11	A	VOR-VOT (Tube Type)	40205	VHF Omnirange (VOR)	I
				88200	VOR-VOT (N1)	I
				FV200	VHF Omnirange, VOR	I
88219	N12	I	ILS/VOR Principles	40204	Advanced ILS/VOR Principles	I
				47201	(CBI) Common Principles - VOR/TAC/DME	I
				88200	VOR-VOT (N1)	I
				88229	TACAN (RTA/RTB-2) (N22)	I
88220	N13	I	ILS Concepts	40206	Instrument Landing System	I
				40218	Instrument Landing System	I
				40233	Instrument Landing System (ILS) Concepts	I
				47200	(CBI) Common Principles - ILS	I
				88204	ILS-LTDA (N3)	I
				FV300	ILS	I
88221	N14	A	ILS Localizer Systems	40206	Instrument Landing System	I
				40218	Instrument Landing System	I
				40234	ILS Tube Type	I
				41512	Tube Type Localizer, w/8 Loop	I
				88204	ILS-LTDA (N3)	I
				FV300	ILS	I
88222	N15	A	ILS, Wilcox Mark IA/IC	40216	Wilcox Mark I ILS Equipment (Interim)	I
				40223	Wilcox Mark I ILS	I
				40235	Instrument Landing System (ILS), Wilcox Mark 1A/C	A
				FV320	Wilcox Mark I ILS	I

APPENDIX 3. AIRWAY FACILITIES MAINTENANCE PERSONNEL CERTIFICATION PROGRAM EXAMINATIONS (CONTINUED)

Figure 1. Theory-of-Operations Examinations and Equivalent Training/Examinations (Continued)

PMIS NO.	EXAM ID NO.	ACT/ IN-ACT.	CONCEPT EXAMINATION TITLE	EQUIV CRS/ EXAM	EQUIVALENT COURSE OR EXAMINATION TITLE	ACT/ INACT.
88223	N16	A	ILS, AIL Mark IB	40211	ILS AIL Turnkey	I
				40236	Instrument Landing System (ILS), AIL Mark 1B	I
				40617	AIL/Mark 1B ILS	I
				FV325	AIL ILS	I
88224	N17	A	ILS, GRN-27 (Cat II)	40232	AN/GRN-27, Category II Instrument Landing System (ILS)	I
88225	N18	I	TACAN Principles	40276	Common Principles for VOR/TACAN Technicians (TACAN Portion)	I
88226	N19	A	DME, Butler 1020 and Wilcox 595/596	48094	Distance Measuring Equipment (DME) (Butler/Wilcox)	A
88227	N20	A	ILS, Capture Effect GS	40240	Instrument Landing System (ILS) Capture Effect Glide Slope	I
				47708	(CBI) Capture Effect Glide Slope (CEGS)	A
				88205	Capture Effect Glide Slope (N3C)	I
88228	N21	A	ILS, AIL Type 55/Wilcox Mark XII	40236	Instrument Landing System (ILS), AIL Mark 1B	I
88233	N26	A	DME Cardion (FA-8974)	40231	Distance Measuring Equipment (Cardion) (FA-8974) Type 1	I
88234	N27	A	ILS, Mark 1D/E/F Localizer	41504	Localizer - Wilcox Mark 1D	I
				47702	(CBI) Localizer - Mark 1 D/E/F	A
				48086	Wilcox Mark 1D/1E ILS	I
88235	N28	A	ILS, Mark 1D/E/F Null Reference Glide Slope	41523	Glide Slope - Wilcox Mark 1D	I
				47703	(CBI) Glide Slope - Mark 1 D/E/F	A
				48086	Wilcox Mark 1D/1E ILS	I
88236	N29	A	ILS, Mark 1D/E/F Marker Beacon	41579	Mark 1D ILS Marker Beacon	I
				47705	(CBI) Mark 1D/E/F ILS Marker Beacon	A
				48086	Wilcox Mark 1D/1E ILS	I
88237	N30	A	ILS, Mark 1D/E/F Remote Monitoring	41563	Mark 1D Remote Monitor/Land Lines	I
				47704	(CBI) Mark 1D/E/F Remote Monitor/Land Lines	A
				48086	Wilcox Mark 1D/1E ILS	I
88238	N31	A	DME Cardion (FA-9639)	40258	Distance Measuring Equipment (DME), Type FA-9639	A
				FD100	TACAN Principles GRN-9/RTC-1	I

APPENDIX 3. AIRWAY FACILITIES MAINTENANCE PERSONNEL CERTIFICATION PROGRAM EXAMINATIONS (CONTINUED)

Figure 1. Theory-of-Operations Examinations and Equivalent Training/Examinations (Continued)

PMIS NO.	EXAM ID NO.	ACT/ IN-ACT.	CONCEPT EXAMINATION TITLE	EQUIV CRS/ EXAM	EQUIVALENT COURSE OR EXAMINATION TITLE	ACT/ INACT.
88239	N32	I	TACAN (RTC-1) Monitor	44214	Rho-Theta Navigational Equipment, Model RTC-1	I
88240	N33	A	ILS Sideband Reference Glide Slope (Tube Type)	41558	Tube Type Sideband Reference Glide Slope	I
88241	N34	A	VOR Cardion Solid State	40230	Solid State VOR Transmitter Assembly (FA-9467)	I
88242	N35	A	VORTAC (FA-9996) Second Generation	40262	Second Generation VORTAC Hardware	I
				47701	(CBI) Second Generation VORTAC Equipment	A
				48124	Wilcox Second Generation VORTAC Hardware	I
88243	N36	A	DME (FA-9783)	40260	Distance Measuring Equipment, Model FA-9783	I
				40271	VHF Direction Finder (VDF) Maintenance	I
				47700	(CBI) Distance Measuring Equipment (DME), FA-9783	A
88244	N37	I	VOR Cardion Principles	40276	Common Principles for VOR/TACAN Technicians	I
88246	N39	I	VOR/TACAN/DME Common Principles	44215	Distance Measuring Equipment (DME) Principles	A
				47201	(CBI) Common Principles - VOR/TAC/DME	I
				88202	TACAN Principles (N2)	I
				88215	DME Principles (N8)	I
				FD200	TACAN Principles	I
88247	N40	A	Double Side-Band Doppler VOR	40261	Doppler VHF Omnidirectional Range (DVOR) System	A
				48022	Doppler Very High Frequency Omnirange (DVOR) System	I
88249	N42	I	Common Principles Basic for Electronic Technicians	40509	Common Principles for Electronics Technicians	I
88251	N44	I	Computer Hardware Fundamentals	40406	Computer Hardware Fundamentals	I
88252	N45	I	Common Principles VOR/TACAN for Technicians	40276	Common Principles VOR/TACAN for Technicians	I
88253	N51	A	Low Power TACAN Antenna (LPTA) System	40285	Low-Power TACAN Maintenance	A

APPENDIX 3. AIRWAY FACILITIES MAINTENANCE PERSONNEL CERTIFICATION PROGRAM EXAMINATIONS (CONTINUED)

Figure 1. Theory-of-Operations Examinations and Equivalent Training/Examinations (Continued)

PMIS NO.	EXAM ID NO.	ACT/ IN-ACT.	CONCEPT EXAMINATION TITLE	EQUIV CRS/ EXAM	EQUIVALENT COURSE OR EXAMINATION TITLE	ACT/ INACT.
88254	N47	A	VHF Omni-Range Test Facility (VOT)	45209	VHF Omnidirectional Range Transmitter (VOT), OJT	A
88255	N50	A	Mark 20 Instrument Landing System (ILS)	47710	(CBI) Mark 20 Instrument Landing System (ILS)	A
88256	N49	A	DME Concepts	44215	Distance Measuring Equipment (DME) Principles	A
88257	N52	A	ILS Theory of Operations	40283	Theory of Instrument Landing Systems	A
88258	N53	A	Navigation Systems Concepts	40284	Navigation Systems Concepts	A
88259	N54	A	VOR Principles	40284	Navigation Systems Concepts, VOR portion	A
88260	N55	A	TACAN Principles	40284	Navigation Systems Concepts, TACAN portion	A
88296	N42	I	Common Principles Test 1, AC/DC & Transients	40150	Common Principles, AC/DC and Transients	I
				40509	Common Principles for Electronics Technicians	I
				44704	Common Principles, AC/DC and Transients	I
				45508	Common Principles, AC/DC & Transients	I
				88249	Common Principles Basic for Electronic Technicians (N42)	I
88297	N42	I	Common Principles Test 2, Solid State Devices	40153	Common Principles, Solid-State Devices	I
				40509	Common Principles for Electronics Technicians	I
				44726	Common Principles, Solid-State Devices (Study Material)	I
				45102	Common Principles, Solid State Devices	I
				88249	Common Principles Basic for Electronic Technicians (N42)	I
88298	N42	I	Common Principles Test 3, Digital Logic	40151	Common Principles, Digital Logic	I
				40509	Common Principles for Electronics Technicians	I
				44710	Common Principles, Digital Logic (Study Material)	I
				45414	Common Principles, Digital Logic	I
				88249	Common Principles Basic for Electronic Technicians (N42)	I

APPENDIX 3. AIRWAY FACILITIES MAINTENANCE PERSONNEL CERTIFICATION PROGRAM EXAMINATIONS (CONTINUED)

Figure 1. Theory-of-Operations Examinations and Equivalent Training/Examinations (Continued)

PMIS NO.	EXAM ID NO.	ACT/ IN-ACT.	CONCEPT EXAMINATION TITLE	EQUIV CRS/ EXAM	EQUIVALENT COURSE OR EXAMINATION TITLE	ACT/ INACT.
88299	N42	I	Common Principles Test 4, Antennas & Transmission Lines	40152	Common Principles, Antennas and Transmission Lines	I
				40509	Common Principles for Electronics Technicians	I
				44727	Cmn Principles, Antennas and Transmission Lines	I
				45204	Common Principles, Antennas and Transmission Lines	I
				88249	Common Principles Basic for Electronic Technicians (N42)	I
88309	R5	I	RML-1/2/3/4 Common Equipment	40301	Radar Microwave Link Repeater	I
				40302	Radar Microwave Link System	I
				40320	RML-Repeater RML-1/2/3/4 (RML-R)	I
				40322	RML-System RML-1/2/3/4 (RML-T/R)	I
				45304	Radar Microwave Link (RML) Type 1/2/3/4 T/R Common Equipment	I
				45305	Radar Microwave Link (RML) Type 1/2/3/4 Terminal Equipment	I
				FR301	RMLR 1/2/3/4	
				FR503	RMLR 1/2/3/4	
88311	R7	I	ATCBI-3 Indicator Site	40312	ATCBI-3-Radar Beacon System	I
				40316	ATCBI-3 Indicator Site	I
				45310	Air Traffic Control Beacon Interrogator (ATCBI)-3 T/R Site	I
				45312	ATCBI-3 Transmitter/Receiver/Indicator Site	I
				88306	SECRA (R2)	I
				FR527	ATCBI-3 Indicator	I
88313	R9	I	BRITE-1	40311	Bright Radar Indicator Tower Equipment (BRITE-1)	I
				40327	Bright Radar Indicator Tower Equipment (BRITE)-2/4	I
				88305	BRITE 1 (R1T)	I
88314	R10	I	Radar Principles A	40300	Radar	I
				40329	Radar Principles A	I
				47000	(CBI) Common Principles - Basic	I
				88300	Basic Radar (R1)	I
				FR200	Basic Radar	I
88315	R11	I	Radar Principles B	47000	(CBI) Common Principles - Basic	I
				40300	Radar	I
				40330	Radar Principles B	I
				44300	Introduction to Radar Techniques	A
				47300	(CBI) Common Principles - Radar	I
				88300	Basic Radar (R1)	I

APPENDIX 3. AIRWAY FACILITIES MAINTENANCE PERSONNEL CERTIFICATION PROGRAM EXAMINATIONS (CONTINUED)

Figure 1. Theory-of-Operations Examinations and Equivalent Training/Examinations (Continued)

PMIS NO.	EXAM ID NO.	ACT/ IN-ACT.	CONCEPT EXAMINATION TITLE	EQUIV CRS/ EXAM	EQUIVALENT COURSE OR EXAMINATION TITLE	ACT/ INACT.
				FR200	Basic Radar	I
88317	R13	A	ASR-7	40323	Airport Surveillance Radar (ASR-7)	I
				40386	Airport Surveillance Radar (ASR-7)	I
				40395	Airport Surveillance Radar (ASR)-7E	A
				46027	AN/GPN-12/ASR-7 Radar	I
88319	R15	A	ATCBI-4	40335	Air Traffic Control Beacon Interrogator (ATCBI)-4	A
				45309	Air Traffic Control Beacon Interrogator (ATCBI)-4 T/R Site	I
88320	R16	I	RML-6 Terminal Equipment	40344	RML System (RML-6)	I
				45307	Radar Microwave Link (RML) Type-5/6 Terminal Equipment	I
88322	R18	I	RML-5 ARTCC Terminal	45305	Radar Microwave Link (RML) Type 1/2/3/4 Terminal Equipment	I
88324	R20	A	Airport Surveillance Radar (ASR-9) Hardware	40337	Airport Surveillance Radar (ASR)-9	A
88325	R21	I	BRITE-1/2/4 TV Display	40327	Bright Radar Indicator Tower Equipment (BRITE)-2/4	I
88327	R23	A	Airport Surface Detection Equipment (ASDE-3) Hardware	40381	Airport Surface Detection Equipment (ASDE)-3 Hardware	A
88328	R24	I	RML-6 Common Equipment	40344	RML System (RML-6)	I
				40376	RML-6 Repeater	I
				45306	Radar Microwave Link (RML) Type 5/6 T/R Common Equipment	I
				45307	Radar Microwave Link (RML) Type-5/6 Terminal Equipment	I
88329	R25	A	ASR-4/5/6 Transmitter Site	40304	ASR-4/5/6 System	I
				40342	ASR-4/5/6 Transmitter Site-Common Equipment	I
				45308	Airport Surveillance Radar (ASR)-4/5/6	I
				88323	ASR-4/5/6 (R19)	I
				FR518	ASR 4/5/6 TX Site Only	I
88330	R26	I	Common Digitizer Height Only	43404	ASR-4/5/6 System	I
				43477	Common Digitizer Height Only	I
				FR410	CD Height Only	I
88331	R27	A	Digital Defruiter	41604	Digital Defruiter	I
				44317	Digital Defruiter	A

APPENDIX 3. AIRWAY FACILITIES MAINTENANCE PERSONNEL CERTIFICATION PROGRAM EXAMINATIONS (CONTINUED)

Figure 1. Theory-of-Operations Examinations and Equivalent Training/Examinations (Continued)

PMIS NO.	EXAM ID NO.	ACT/ IN-ACT.	CONCEPT EXAMINATION TITLE	EQUIV CRS/ EXAM	EQUIVALENT COURSE OR EXAMINATION TITLE	ACT/ INACT.
88332	R29	I	AN/TPX-42	40366	AN/TPX-42	I
				46018	AN/TPX-42 Maintenance	I
88333	R29	A	ARSR-1/2	40307	Enroute Radar System ARSR-1/2	I
				40383	ARSR-1/2 En Route Radar System with SSR/DMTI Mod	A
88334	R30	A	Solid State Video Mapper	40328	Solid-State Video Mapper	A
88335	R31	A	ATCBI-5	40339	ATC Beacon Indicator (ATCBI)-5 Tr/Rcvr	I
				47706	(CBI) ATC Beacon Indicator (ATCBI-5) Trans/Receiver Site	A
				47800	(CBI) ATCBI-5	I
88336	R32	A	ASR-8	40333	Airport Surveillance Radar (ASR)-8	A
88337	R33	I	BRITE-2/4	40327	Bright Radar Indicator Tower Equipment (BRITE)-2/4	I
				88321	BRITE 2/4 (R17)	I
88338	R34	I	Terracom Television Microwave Link (TML)	40393	DBRITE Television Microwave Llink (TML) Hardware	I
88339	R35	I	RML-1/2/3/4 Terminal Equipment	–	R10 plus R11 plus R1L	I
				40302	Radar Microwave Link System	I
				40322	RML-System RML-1/2/3/4 (RML-T/R)	I
				45305	Radar Microwave Link (RML) Type 1/2/3/4 Terminal Equipment	I
				88309	RML-1/2/3/4 Common Equipment (R5)	I
				88312	RMLT/R Only (1A/2/3/4) (R8)	I
				FR503	RML 1/2/3/4	I
88340	R36	I	TPX-42 BRITE Numerics	40367	TPX-42 BRITE Numerics	I
88341	R37	A	ARSR-3 Military Interface Module	40377	ARSR-3 Military Interface Modification (MIM)	A
88342	R38	I	Television Microwave Link (TML-IMC)	40393	DBRITE TML Hardware	I
88343	R39	A	Radar Beacon Performance Remote System Monitor	40378	Radar Beacon Performance Remote System Monitor	I
				47802	(CBI) Radar Beacon Performance Remote System Monitor (RSM)	A
88344	R40	I	ATCBI-3 Transmitter/Receiver	--	R10 plus R11 plus R1B	I
				--	R1 plus R1B	I
				40312	ATCBI-3-Radar Beacon System	I
				40314	ATCBI-3 Transmitter/Receiver-Site	I

APPENDIX 3. AIRWAY FACILITIES MAINTENANCE PERSONNEL CERTIFICATION PROGRAM EXAMINATIONS (CONTINUED)

Figure 1. Theory-of-Operations Examinations and Equivalent Training/Examinations (Continued)

PMIS NO.	EXAM ID NO.	ACT/ IN-ACT.	CONCEPT EXAMINATION TITLE	EQUIV CRS/ EXAM	EQUIVALENT COURSE OR EXAMINATION TITLE	ACT/ INACT.
				40318	ATCBI-3 Transmitter/Receiver/Indicator Site	I
				45310	Air Traffic Control Beacon Interrogator (ATCBI)-3 T/R Site	I
				45312	ATCBI-3 Transmitter/Receiver/Indicator Site	I
				88318	ATCBI-4 Storage Tube Defruiter (R14)	I
				FR527A	ATCBI-3 (TX/RX)	I
				FR527C	ATCBI-3 (TX/RX)	I
88345	R41	A	DBRITE System	40373	DBRITE	A
88346	R42	I	Radar Principles	40392	Common Principles for Radar Technicians	I
				--	FCC General Radiotelephone License with Radar Endorsement	
88347	R43	A	SSR/DMTI Mod Type 1	40383	ARSR-1/2 En Route Radar System with SSR/DMTI Mod	A
88348	R44	A	ARSR-1/2 Transmitter	40383	ARSR-1/2 En Route Radar System with SSR/DMTI Mod	A
88349	R45	A	ASR-9 Remote SCIP	40337	Airport Surveillance Radar (ASR)-9	A
88350	R46	A	Mode-S System	40398	Mode-S Sensor Maintenance	A
88351	R47	A	FPS Series Vacuum Tube Type Receiver System	46051	AN/FPS-66/67 Radar O/I Maintenance (Modified)	I
88353	R49	A	Solid State Radar Beacon Decoder (SSRBD)	40397	Solid-State Radar Beacon Decoder (SSRBD)	I
				47011	(CBI) Solid State Radar Beacon Decoder (SSRBD)	A
88355	R51	A	FPS Transmitter	40399	FPS Series Radar with SSR/DMTI Modification	A
88356	R52	A	SSR/DMTI Type 2/3	40382	FPS Series SSR/DMTI Modification	I
				40399	FPS Series Radar with SSR/DMTI Modification	A
88357	R53	A	ARSR 1/2 with SSR/DMTI Type 1	40338	ARSR-1/2, SSR/DMTI Modification	I
				40383	ARSR-1/2 En Route Radar System with SSR/DMTI Mod	I
88358	R54	A	ARSR-3 with 3LW and RMM	40388	ARSR-3 and RMM	A

APPENDIX 3. AIRWAY FACILITIES MAINTENANCE PERSONNEL CERTIFICATION PROGRAM EXAMINATIONS (CONTINUED)

Figure 1. Theory-of-Operations Examinations and Equivalent Training/Examinations (Continued)

PMIS NO.	EXAM ID NO.	ACT/ IN-ACT.	CONCEPT EXAMINATION TITLE	EQUIV CRS/ EXAM	EQUIVALENT COURSE OR EXAMINATION TITLE	ACT/ INACT.
88359	R55 †	A	Radio Communications Link (RCL) System Terminal Equipment	40340	Radio Communications Link (RCL) Terminal Equipment	A
88360	R56	A	Modern Radar Concepts	42058	Modern Radar Concepts	A
88401	D2	A	Coded Time Source	43001	Coded Time Source (CTS)	I
				44005	Coded Time Source (CTS)	I
				FT180	Coded Time Source (CTS)	I
88402	D3	I	Peripheral Devices	43411	NAS Enroute I/O Equipment for Technicians	I
				43457	IBM-9020 Peripheral Devices	I
88403	D4	I	DRG/IFDS	43417	Data Receiving Group (DRG) and Inter-Facility Data Set (IFDS)	I
88404	D5	I	FDEP Equipment	43409	Flight Data Entry and Printout Equipment (FDEP)	I
				45409	Flight Data Entry and Printout Equipment (FDEP)	I
				FP160	Flight Data Entry/Printout Equipment (FDEP)	I
88405	D6	I	IBM 9020A Processor	43413	IBM-9020 Central Computer Complex	I
				43459	IBM-9020 Input/Output Equipment	I
				43461	IBM-9020A Processing	I
88406	D7	I	IBM 9020 Input/Output (I/O Equipment)	43413	IBM-9020 Central Computer Complex	I
				43459	IBM-9020 Input/Output Equipment	I
88407	D8	A	Direct Access Storage Facility (DASF)	43437	IBM-2314-A1 Direct Access Storage Facility (DASF)	I
				43459	IBM-9020 Input/Output Equipment	I
88412	D13	I	ARTS IIIA System	42011	ARTS IIIA System	I
				42014	ARTS IIIA Update	I
88413	D14	I	IBM 129/029 Card Punch-Print-Verifier	43516	IBM-029/129 Card Punch Fundamentals	I
88414	D15	A	Sensor Receiver and Processor (SRAP)	42010	Sensor, Receiver, and Processor (SRAP)	A
88415	D16	A	Host Operations for NAS Managers and NAS Specialists	43014	Host Operations for NAS Managers and NAS Specialists	A
88416	D17	A	Data Processing Subsystem, (ARTS IIIA/EARTS)	--	42017 plus 42014	I
					42017 plus 42011	I
				42027	Data Processing Subsystem (DPS)	A

APPENDIX 3. AIRWAY FACILITIES MAINTENANCE PERSONNEL CERTIFICATION PROGRAM EXAMINATIONS (CONTINUED)

Figure 1. Theory-of-Operations Examinations and Equivalent Training/Examinations (Continued)

	PMIS NO.	EXAM ID NO.	ACT/ IN-ACT.	CONCEPT EXAMINATION TITLE	EQUIV CRS/ EXAM	EQUIVALENT COURSE OR EXAMINATION TITLE	ACT/ INACT.
	88417	D18	A	ARTS IIIA Data Entry Display System (DEDS)	42035	ARTS IIIA Data Entry and Display Subsystem (DEDS)	A
	88418	D19	I	ARTS IIIA Data Acquisition System	42034	ARTS IIIA Data Acquisition Subsystem (DAS)	I
	88419	D20	A	NAS Operational Program for HOST Technicians	43534	NAS Operational Program for HOST Technicians	I
	88420	D21	A	Peripheral Adapter Module Replacement Item (PAMRI)	43012	PAMRI System Maintenance Support	A
	88421	D22	I	Computer Update Equipment (CUE)	43416	Computer Update Equipment (CUE)	I
	88423	D24	A	Continuous Data Recording System (CDR) for ARTS-IIIA	-- 42025	42012 plus 42026 Continuous Data Recording (CDR) System	I I
	88424	D25	I	Interface Buffer Adapter Generator (IBAG)	42024	Interface Buffer Adapter and Generator (IBAG)	A
	88425	D26	A	EARTS Data Acquisition Subsystem (EDAS)	42028 42046	EARTS Data Acquisition Subsystem (DAS) EARTS Data Acquisition Subsystem (DAS)	I A
	88427	D28	I	EARTS Display (PVD)	43467	EARTS Display (PVD)	I
	88428	D29	A	Dictaphone Model 5000	40035	Dictaphone 5000 Recorders	A
	88429	D30	A	HOCSR Introduction for Systems Specialists	43020	HOCSR Introduction for Systems Specialists	A
	88430	D31	I	Host Computer System (HCS) Enhanced Computer Opr Trng	43042	Host Computer System (HCS) Enhanced Computer Operator	I
	88431	D32	I	Radar Data Acquisition Subsystem	43009	Radar Data Acquisition Subsystem (RDAS) Operations	I
	88432	D33	I	Computer Display Channel (CDC) Software	43451	Computer Display Channel (CDC) Software	I
*	88433	D34	A	UNIX Operating System Basics	47409	(CBI) Apex HP-UX UNIX	I
	88434	D35A	A	DSR Hardware Maintenance Test 1	43556	Display System Replacement Hardware Maintenance	A
	88436	D36	A	Fundamentals of Internetworking for NAS	40418	Fundamentals of Internetworking for NAS	A

APPENDIX 3. AIRWAY FACILITIES MAINTENANCE PERSONNEL CERTIFICATION PROGRAM EXAMINATIONS (CONTINUED)

Figure 2. Current Concepts/Theory-of-Operations Examinations

PMIS NO.	EXAM ID NO.	EXAMINATION TITLE	PREREQUISITE EXAM	NO. OF QUEST	AVAIL. DATE	TIME (HRS)
88000	C1	Basic Communications Equipment		20	3/26/86	02.00
88007	C2	Recorders		20	8/4/81	01.00
88009	C4	RVV		20	10/1/83	01.00
88010	C5	RBC		10	11/1/71	00.50
88011	C6	UVDF (Doppler DF) and Remoting Equipment 5571/5572		40	10/29/85	02.50
88014	C8	RVR (SSR, FA-7861)	Tasker 400	35	10/1/85	02.00
88016	C10	BUEC Remote Site		50	4/3/86	03.00
88017	C11	BUEC - ARTCC	C10	33	4/3/86	02.00
88018	C12	High Capacity Voice Recorder		40	4/3/86	02.50
88022	C15A	RVR Tasker 500 - Computer Only		25	10/1/83	03.00
88023	C16	Low Level Wind Shear Alert System (FA-9980, FA-9981)		25	10/1/83	02.00
88024	C17	VHF Direction Finder (FA-9964)		20	10/1/84	02.00
88025	C18	Magnasync/Moviola High Capacity Voice Recorder		25	6/29/94	02.00
88026	C19	Low-Level Wind Shear Alert System Climatronics		25	9/29/94	02.00
88033	C26	Direct Access Radar Channel (DARC) Operations		20	12/2/94	02.00
88034	C27 †	RCL System Terminal & Repeater Common Equipment		50	9/6/96	05.00
88035	C28	ICSS Type II Litton		33	12/31/97	04.00
88038	C31	ICSS Model 3080 RDVS		20	12/31/97	02.00
88039	C32	ICSS Large Baseline Rapid Deployment Voice Switch		25	12/31/97	04.00
88040	C33A	Voice Switching And Control Subsystem (VSCS) Hardware, Test 1		75	7/28/97	06.00
88041	C33B	Voice Switching And Control Subsystem (VSCS) Hardware, Test 2		75	7/28/97	06.00
88042	C33C	Voice Switching And Control Subsystem (VSCS) Hardware, Test 3		100	7/28/97	06.00
88043	C34	Radio Control Equipment		42	1/22/99	03.00
88044	C35A	VSCS System Overview, Test 1		65	5/25/99	04.00
88045	C35B	VSCS System Overview, Test 2		65	5/25/99	04.00
88046	C36A	VSCS Site Software Maintenance, Test 1		100	5/25/99	04.00
88047	C36B	VSCS Site Software Maintenance, Test 2		100	5/25/99	04.00
88048	C36C	VSCS Site Software Maintenance, Test 3		100	5/25/99	04.00
88100	E1	Electrical Principles		50	4/1/86	02.50
88102	E2 †	Diesel Engine Generator, 550 kW		60	5/30/91	02.00
88104	E4	ALS	E1 and E3	50	10/6/78	04.00
88105	E5	VASI	E1	25	9/24/81	02.00
88107	E11	MALSR/RMM and REIL/RMM		60	3/26/99	03.00
88108	E8	Exide Uninterruptible Power Supply	E1	40	8/6/86	02.00
88109	E9A	ARTCC Critical and Essential Power Systems (ACEPS) Test 1		84	6/26/97	06.00

APPENDIX 3. AIRWAY FACILITIES MAINTENANCE PERSONNEL CERTIFICATION PROGRAM EXAMINATIONS (CONTINUED)

Figure 2. Current Concepts/Theory-of-Operations Examinations (Continued)

PMIS NO.	EXAM ID NO.	EXAMINATION TITLE	PREREQUISITE EXAM	NO. OF QUEST	AVAIL. DATE	TIME (HRS)
88110	E9B	ARTCC Critical and Essential Power Systems (ACEPS) Test 2		85	6/26/97	06.00
88111	E9C	ARTCC Critical and Essential Power Systems (ACEPS) Test 3		58	6/26/97	06.00
88112	E10 †	Dual Mode ALSF-II (Godfrey)		50	10/9/90	04.00
88113	E12A	Kohler Power Systems, Test 1		55	9/10/99	02.00
88114	E12B	Kohler Power Systems, Test 2		51	9/10/99	02.00
88208	N4	Markers/Homers		24	10/1/83	01.00
88217	N10	VOT Only		20	10/1/68	01.00
88218	N11	VOR-VOT (Tube Type)	N13 & N45	60	7/1/74	03.50
88221	N14	ILS Localizer Systems	N13 & N45	90	3/1/91	04.00
88222	N15	ILS, Wilcox Mark IA/IC	N13	50	10/01/83	04.00
88223	N16	ILS, AIL Mark IB	N13	50	8/1/85	03.50
88224	N17	ILS, GRN-27 (Cat II)	N13	50	8/1/85	04.00
88226	N19	DME, Butler 1020 and Wilcox 595/596		30	6/1/75	02.50
88227	N20	ILS, Capture Effect GS	N13 & any of N14, N15, N16, N17	20	12/3/85	01.50
88228	N21	ILS, AIL Type 55/Wilcox Mark XII	N13	50	4/7/83	03.00
88233	N26	DME Cardion (FA-8974)		33	11/1/77	01.50
88234	N27	ILS, Mark 1D/E/F Localizer	N13	31	4/3/86	02.50
88235	N28	ILS, Mark 1D/E/F Null Reference Glide Slope	N13	30	4/3/86	02.50
88236	N29	ILS, Mark 1D/E/F Marker Beacon		20	4/3/86	03.00
88237	N30	ILS, Mark 1D/E/F Remote Monitoring		70	3/27/78	03.00
88238	N31	DME Cardion (FA-9639)		33	3/23/79	02.00
88240	N33	ILS Sideband Reference Glide Slope (Tube Type)		30	8/24/81	02.00
88241	N34	VOR Cardion Solid State		70	3/9/82	03.00
88242	N35	VORTAC (FA-9996) Second Generation		110	11/13/84	06.00
88243	N36	DME (FA-9783)		50	3/12/86	03.00
88247	N40	Double Side-Band Doppler VOR		27	8/1/85	02.50
88248	N41	Microwave Landing System (MLS) Concepts		30	2/27/87	01.00
88253	N51	Low Power TACAN Antenna (LPTA) System		35	2/23/99	02.00
88254	N47	VHF Omni-Range Test Facility (VOT)		100	10/13/94	02.00
88255	N50	Mark 20 Instrument Landing System (ILS)		76	12/3/97	08.00
88256	N49	DME Concepts		25	10/26/94	02.00
88257	N52	ILS Theory of Operations		65	8/30/81	03.00
88258	N53	Navigation Systems Concepts		64	5/3/99	06.00
88259	N54	VOR Principles		38	5/19/99	04.00
88260	N55	TACAN Principles		37	5/19/99	04.00
88317	R13	ASR-7	R42	25	5/1/74	02.50
88319	R15	ATCBI-4	R42	40	11/1/84	04.00
88324	R20	Airport Surveillance Radar (ASR-9) Hardware		40	1/12/93	04.00
88327	R23	Airport Surface Detection Equipment (ASDE-3) Hardware		100	1/12/93	02.00
88331	R27	Digital Defruiter		20	5/31/76	04.00
88333	R29	ARSR-1/2		50	10/1/83	04.00
88334	R30	Solid State Video Mapper		45	4/3/86	02.00

APPENDIX 3. AIRWAY FACILITIES MAINTENANCE PERSONNEL CERTIFICATION PROGRAM EXAMINATIONS (CONTINUED)

Figure 2. Current Concept/Theory-of-Operations Examinations (Continued)

PMIS NO.	EXAM ID NO.	EXAMINATION TITLE	PREREQUISITE EXAMS	NO. OF QUEST.	AVAIL. DATE	TIME (HRS)
88335	R31	ATCBI-5		32	11/1/77	03.00
88336	R32	ASR-8	R42	30	2/21/90	04.00
88341	R37	ARSR-3 Military Interface Module		35	10/28/81	04.00
88343	R39	Radar Beacon Performance Remote System Monitor		30	1/13/83	03.00
88345	R41	DBRITE System		50	1/12/93	04.00
88347	R43	SSR/DMTI Mod Type 1		28	2/26/90	02.50
88348	R44	ARSR-1/2 Transmitter		25	12/1/92	02.00
88349	R45	ASR-9 Remote SCIP		40	1/21/94	04.00
88350	R46	Mode-S System		50	1/11/93	04.00
88351	R47	FPS Series Vacuum Tube Type Receiver System		25	9/7/93	02.00
88353	R49	Solid State Radar Beacon Decoder (SSRBD)		40	1/10/95	02.00
88355	R51	FPS Transmitter		25	4/4/95	03.00
88356	R52	SSR/DMTI Type 2/3		25	4/3/95	02.50
88357	R53	ARSR 1/2 with SSR/DMTI Type 1		50	4/13/95	04.00
88358	R54	ARSR-3 with 3LW and RMM		60	1/14/97	08.00
88359	R55 †	Radio Communications Link (RCL) System Terminal Equipment		40	1/14/97	04.00
88360	R56	Modern Radar Concepts		50	8/16/99	03.00
88401	D2	Coded Time Source		20	9/30/77	02.00
88414	D15 †	Sensor Receiver and Processor (SRAP)		25	4/23/82	03.00
88415	D16	Host Operations for NAS Managers and NAS Specialists		75	3/21/95	05.00
88416	D17	Data Processing Subsystem, (ARTS IIIA/EARTS)		55	4/7/83	04.00
88417	D18	ARTS IIIA Data Entry Display System (DEDS)		27	4/7/83	03.00
88420	D21	Peripheral Adapter Module Replacement Item (PAMRI)		25	10/3/95	02.00
88423	D24	Continuous Data Recording System (CDR) for ARTS-IIIA		50	3/7/86	04.00
88425	D26	EARTS Data Acquisition Subsystem (EDAS)		40	5/10/95	04.00
88428	D29	Dictaphone Model 5000		33	3/23/90	02.00
88429	D30	HOCSR Introduction for System Specialists		25	12/20/95	02.00
88431	D32	Radar Data Acquisition Subsystem		25	11/29/95	02.00
88433	D34	Unix Operating System Basics		50	9/3/99	02.00
88434	D35A	DSR Hardware Maintenance Test 1		98	3/21/00	06.00
88436	D36	Fundamentals of Internetworking for NAS		100	3/22/00	02.00

APPENDIX 3. AIRWAY FACILITIES MAINTENANCE PERSONNEL CERTIFICATION PROGRAM EXAMINATIONS (CONTINUED)

Figure 3. Current Performance Examinations

PMIS NO.	EXAM ID NO.	EXAMINATION TITLE	DATE OF CURRENT EXAM	TIME (HRS)
88520	CP9	Wind/Altimeter Equipment	6/29/95	03.50
88527	CP16	VDF Type CA-3300	11/30/90	04.00
88529	CP18	VDF Doppler Type FA-5530	11/30/90	12.00
88530	CP19	Rotating Beam Ceilometer (RBC)	11/30/90	05.00
88540	CP29	Leach 5-Channel Recorder, Type FA-8144	11/30/90	07.50
88541	CP30	VDF Doppler Remoting Equipment	6/26/95	03.00
88542	CP31	Magnetic Tape Recorder/Reproducer Model TR-1720/1710	6/29/95	05.00
88543	CP32	BUEC VHF Transceiver 20 Watt Type FA-8190, FA-8191	9/17/90	08.00
88544	CP33	High Capacity Voice Recorder (HCVR)	12/19/90	13.00
88545	CP34	BUEC Remote Control Group (ARTCC)	9/12/90	04.00
88547	CP36	Communication Link Equipment Farinon Type PT-150	11/30/90	10.00
88548	CP37	LLWAS Type FA-10240	1/3/95	08.00
88549	CP38	LLWAS Climatronics FA-10239	1/3/95	08.00
88550	CP39	Doppler DF FA-9964	9/17/90	08.00
88551	CP40	Dictaphone 5000 Recorder	6/29/95	04.00
88552	CP41	ATIS - TWEB Automatic Electric FA-65-WA-1347	11/30/90	04.00
88553	CP42	ATIS - TWEB Stancil-Hoffman Type TRC-89	11/30/90	04.00
88554	CP43	ATIS - TWEB Types CA-3409A and FA-5210	11/30/90	08.00
88555	CP44	ATIS - TWEB Type FA-9758	11/30/90	08.00
88556	CP45	ATIS-AMPRO TWEB	11/30/90	08.00
88557	CP46	ATIS - TWEB COMEX Solid-State Type FA-10012	6/29/95	01.00
88558	CP47	VHF Communications Equipment	6/30/95	08.00
88559	CP48	UHF Communications Equipment	6/30/95	08.00
88560	CP49	Communications Equipment Amplifiers and Audio Equipment	6/29/95	06.00
88561	CP50	Communications Equipment Control Site Wiring	9/12/90	04.00
88562	CP51	Communications Equipment Facility Wiring (Remote Site)	1/29/91	02.00
88563	CP52	CE Control and Monitoring Equipment	8/8/95	07.00
88564	CP53	CE Control and Monitoring Equipment	11/30/90	06.00
88567	CP56	RVR/RVV Transmissometer, Etc.	11/30/90	02.00
88568	CP57	RVR/RVV (SSR)	11/30/90	03.00
88569	CP58	RVR/RVV (IRA)	11/30/90	03.00
88570	CP59	RVR/RVV (Aeronca)	11/30/90	03.00
88571	CP60	RVR/RVV (Tasker 500)	10/30/90	03.00
88572	CP61	Single Channel Digital Recorder System (FA-10146)	11/30/90	12.00
88573	CP62	Qualimetrics AWOS	6/29/95	04.00
88575	CP67	Voice Switching and Control System (VSCS) Hardware	7/28/97	28.00
88576	CP65	High Capacity Voice Recorder (Magnasync/Moviola)	7/7/95	12.00
88577	CP66	LLWAS-NE (Type FA-10387)	4/11/96	08.00
88578	CP64	Teledyne Runway Visual Range (RVR)	2/24/99	04.00
88601	EP1B	VASI	6/29/95	06.00
88602	EP1C	REIL/LDIN	11/30/90	04.00
88608	EP4	Omnidirectional Approach Lighting System (ODALS)	9/17/90	04.00
88609	EP5	ALSF/MALS/SALS/RAIL	11/30/90	12.00
88610	EP6	Multi-Electric MALSR FA-9425/1	9/18/90	04.00
88611	EP7	UPS Exide	11/30/90	15.00
88612	EP8	Precision Approach Path Indicator (PAPI)	5/13/91	06.00
88613	EP9	ATCT E/G Power Distribution	8/11/95	06.00
88614	EP10	ARTCC Critical Essential Power System (ACEPS)	7/23/96	32.00

APPENDIX 3. AIRWAY FACILITIES MAINTENANCE PERSONNEL CERTIFICATION PROGRAM EXAMINATIONS (CONTINUED)

Figure 3. Current Performance Examinations (Continued)

PMIS NO.	EXAM ID NO.	EXAMINATION TITLE	DATE OF CURRENT EXAM	TIME (HRS)
88700	NP1	VOR (TT)	11/30/90	10.00
88701	NP2	VOT	11/30/90	04.00
88702	NP3	Doppler VHF Omnidirectional Range (DVOR) Tube Type	11/30/90	12.00
88707	NP8	NDB-Comlo, Common	8/10/95	07.00
88708	NP9	Markers, Tube Type	11/30/90	07.00
88711	NP11B	TACAN AM/1720 Antenna Speed Control	11/30/90	01.50
88712	NP11C	TACAN C-2634 Antenna Speed Control	11/30/90	01.00
88713	NP12	RTB-2	11/30/90	06.50
88714	NP13	RTC-1	11/30/90	07.00
88715	NP14	RTC-2	11/30/90	07.00
88716	NP15	GRN-9A/B/C TACAN Beacon Equipment	11/30/90	05.50
88720	NP19	Distance Measuring Equipment Model DTD (TT)	11/30/90	11.00
88724	NP23	Test Monitor Control Equipment Type RTC-3	11/30/90	08.00
88731	NP30	Solid State Markers	11/30/90	05.00
88733	NP32	Remote Radio Controlled Visual Navaids	11/30/90	10.00
88736	NP35	VHF Cardion Navaid Transmitter Equipment Type FA-9467	11/30/90	10.00
88741	NP40	Cardion DME (FA-9783)	6/29/95	10.00
88742	NP42	ILS, AIL Type 55 Markers	2/6/91	05.00
88743	NP43	ILS, AIL 55/M Localizer (FA-9908 TX)	9/14/90	08.00
88744	NP44	ILS, AIL Type 55 Glide Slope	11/30/90	08.00
88745	NP45	ILS, Wilcox Mark 1A Localizer Type FA-8000	9/14/90	08.00
88746	NP46	ILS, Wilcox Mark 1A Glide Slope Type FA-8020	11/30/90	08.00
88747	NP47	ILS, Wilcox Mark 1A Marker Beacon Station Type FA-8030	9/14/90	05.00
88748	NP48	ILS, Wilcox Mark 1C Localizer Type FA-8840	9/12/90	08.00
88749	NP49	ILS, Wilcox Mark 1C Capture Effect Glide Slope Type FA-8877	11/30/90	08.00
88750	NP50	ILS, Wilcox Mark 1C Sideband Reference Glide Slope FA-9377	11/30/90	08.00
88751	NP51	ILS, Wilcox 1C Marker Beacon Station Type FA-8831	9/14/90	05.00
88752	NP52	ILS, Wilcox Mark 1C Null Reference Glide Slope Type FA-8860	11/30/90	08.00
88753	NP53	ILS, Wilcox Mark 1F Localizer Type FA-9903	8/8/95	08.00
88754	NP54	ILS, Wilcox Mark 1F Null Reference Glide Slope Type FA-9919	9/14/90	08.00
88755	NP55	ILS, Wilcox Mark 1F Sideband Reference GS Type FA-9919/9929	8/8/95	10.00
88756	NP56	ILS, Wilcox Mark 1F Capture Effect GS Type FA-9919/9928	8/31/90	10.00
88757	NP57	ILS, Wilcox Mark 1F Marker Beacon Station Type FA-9930/9937	10/16/90	05.00
88758	NP58	ILS, Localizer Type AN/GRN-27	9/14/90	08.00
88759	NP59	ILS, Null Reference Glide Slope Type AN/GRN-27	11/30/90	10.00
88760	NP60	ILS, AN/GRN-27 Marker Beacon Station Type AN/GRN-28	11/30/90	04.00
88761	NP61	ILS, Capture Effect Glide Slope Type AN/GRN 27	12/4/90	10.00
88762	NP62	ILS, Wilcox Mark 1D/1E Localizer Type FA-9350/FA-9700	8/8/95	08.00
88763	NP63	ILS, Wilcox Mark 1D/1E Null Ref. GS Type FA-9365/FA-9715	10/31/90	08.00
88764	NP64	ILS, Wilcox Mark 1D/1E Sideband Ref. GS Type FA-9367	10/26/90	10.00
88765	NP65	ILS, Wilcox Mark 1D/1E Capture Effect GS FA-9366/FA-97XX	10/16/90	10.00
88766	NP66	ILS, Wilcox Mark 1D/1E Markers Type FA-938X/FA-972X	10/16/90	05.00
88767	NP67	ILS, Mark 1B Localizer FA-8602	11/30/90	08.00
88768	NP68	ILS, Mark 1B, Glide Slope (Null Reference) FA-8601	11/30/90	08.00
88769	NP69	ILS, Mark 1B, Glide Slope (Capture Effect) FA-8600	11/30/90	08.00
88770	NP70	ILS, Mark 1B, Marker Beacon Station Type FA-8603	2/9/99	05.00
88771	NP71	Glide Slope-Null Reference (S.S. and Tube Type) (General)	9/25/90	08.00
88772	NP72	Glide Slope-Sideband Reference (General)	9/25/90	08.00

** Exam not currently available

APPENDIX 3. AIRWAY FACILITIES MAINTENANCE PERSONNEL CERTIFICATION PROGRAM EXAMINATIONS (CONTINUED)

Figure 3. Current Performance Examinations (Continued)

PMIS NO.	EXAM ID NO.	EXAMINATION TITLE	DATE OF CURRENT EXAM	TIME (HRS)
88773	NP73	Glide Slope-Capture Effect (General)	11/19/90	10.00
88774	NP74	Cardion DME Ground Station Equipment Type FA-9639	9/29/99	05.00
88775	NP75	Cardion DME Ground Station Equipment Type FA-8974	11/21/90	05.00
88776	NP76	Second Generation VORTAC BCPS Type FA-9996/1	4/6/99	02.00
88777	NP77	Second Generation VORTAC VOR/FCPU Type FA-9996/2	4/6/99	06.00
88778	NP78	Second Generation VORTAC RMC-F Type FA-9996/7	4/6/99	02.00
88779	NP79	Second Generation VORTAC DME/TACAN Type FA-9996/3	4/6/99	06.00
88780	NP80	2D Gen. VORTAC Antenna Speed Controls FA-6247/6238/10639	4/6/99	02.00
88781	NP99	Endfire Glideslope Antenna System	2/16/99	16.00
88782	NP82	ILS, Wilcox Cat III Localizer Type FA-9759	10/23/90	08.00
88783	NP83	ILS, Wilcox Cat III Marker Beacon Subsystem Type FA-9761	12/11/90	05.00
88784	NP84	ILS Wilcox Cat III Null-Reference Glide Slope Type FA-9760/5	11/30/90	08.00
88785	NP85	ILS, Wilcox Cat III Capture-Effect Glide Slope Type FA-9760	11/23/90	08.00
88786	NP41	Doppler VOR Type FA-9996	4/6/99	10.00
88787	NP86	Wilcox Model 476B VHF Omnirange Set	11/30/90	10.00
88788	NP87	Wilcox Model 585B VHF Omnirange Station	2/5/91	10.00
88789	NP88	Localizer with V-Ring Antenna Array	10/10/90	08.00
88790	NP89	ILS Localizer with Alford Eight-Loop Antenna System	9/12/90	08.00
88791	NP90	Localizer with Traveling Wave Antenna System	11/30/90	08.00
88792	NP91	Localizer with Waveguide Antenna Array	11/30/90	08.00
88793	NP92	Butler Distance Measuring Equipment Model 1020 DME	9/26/90	08.00
88794	NP93	Wilcox Model 596B Distance Measuring Equipment	4/30/91	08.00
88795	NP94	Non-Directional Beacon (NDB) Nautel NX 8000BD-02-01	9/17/90	10.00
88796	NP95	LF/MF NDB Scientific Radio System Type FA-9589/9591	12/4/90	14.00
88797	NP96	ILS, Wilcox Mark 20	10/21/99	28.00
88798	NP97	Third Generation VOR/DME VOR Portion	2/16/99	04.00
88799	NP98	Third Generation VOR/DME FCPU Portion	2/16/99	04.00
89800	NP100	DME ASII Model 1118 with ERMM	4/11/00	08.00
89801	NP101	DME ASII Model 1118 without ERMM	4/11/00	08.00
88802	RP3	ARSR-1/2 (T/R Site)	11/30/90	12.00
88806	RP6	UPX-14	11/30/90	08.00
88807	RP7	UPX-6/GPX-9B	11/30/90	08.00
88834	RP24	ARSR-1/2 (Indicator Site)	11/30/90	04.00
88841	RP31	FPS-65A	11/30/90	16.00
88842	RP32	FPS-66/67	10/17/90	16.00
88843	RP33	ATCBI-4	11/30/90	07.00
88845	RP35	ASR-7/7E/7F Radar Site FA-8200	6/29/95	10.00
88850	RP40	Common Digitizer FYQ-47/49	9/17/90	12.00
88851	RP41A	FPS-90/FPS-6/FPS-116	11/30/90	16.00
88858	RP48	ASR-8 Transmitter Site FA-9335	8/30/90	22.00
88863	RP53	ATCBI-5 FA-9400	9/24/90	10.00
88865	RP55	AN/GPN-21, ASR-8 Transmitter Site	11/30/90	10.00
88868	RP58	Radio Communications Link (RCL) Repeater	10/1/90	16.00
88881	RP71	TML-3 Microwave Transmitter FA-9797	11/30/90	03.00
88882	RP72	TML-3 Microwave Receiver FA-9798	9/17/90	03.00
88883	RP73	Video Mapper Group AN/GPA-131(V)	11/30/90	02.00
88884	RP74	Video Mapper Group FA-8049	11/30/90	02.00
88885	RP75	Video Mapper, Five Channel FA-8970	6/29/95	02.00

APPENDIX 3. AIRWAY FACILITIES MAINTENANCE PERSONNEL CERTIFICATION PROGRAM EXAMINATIONS (CONTINUED)

Figure 3. Current Performance Examinations (Continued)

	PMIS NO.	EXAM ID NO.	EXAMINATION TITLE	DATE OF CURRENT EXAM	TIME (HRS)
	88886	RP76	Television Microwave Link TCM-6 Transmitter	11/15/90	03.00
	88887	RP77	Television Microwave Link TCM-6 Receiver	11/15/90	03.00
	88896	RP86	ARSR 60/60M	11/30/90	20.00
	88897	RP87	FPS-20/91	11/30/90	20.00
	89000	RP90	Automated Radar Terminal System IIA Type FA-9020	9/13/90	40.00
	89001	RP91	Automated Radar Terminal System (ARTS) IIIA	11/30/90	60.00
	89002	RP92	Radio Communications Link (RCL) Area Control	9/17/90	26.00
	89003	RP93	SSR/DMTI for ARSR 1/2, ARSR 60 and FPS 20	11/30/90	10.00
	89004	RP94	Air Route Surveillance Radar (ARSR-3)	11/5/90	04.00
	89005	RP95	ASR-9 System	1/27/94	51.00
	89006	RP96	Common Digitizer 2A/B/C/D FA-9971/72/73/74	10/23/90	08.00
	89007	RP97	Digital Bright Indicator Tower Equipment (DBRITE)	4/30/91	06.00
	89008	RP98	Solid State Radar Beacon Decoder (SSRBD)	6/29/95	04.00
	89009	RP99	Terminal Doppler Weather Radar (TDWR)	1/20/95	15.00
	89010	RP100	AN/FPS-117 Minimally Attended Radar (MAR)	1/28/94	40.00
	89011	RP101	ARSR-4	6/13/96	16.00
*	89012	RP102	Automated Radar Terminal System (ARTS) IE, Type FA-9020/A	11/01/00	60.00
	89013	RP103	Automated Radar Terminal System III Enhanced (ARTS IIIE)	6/27/00	74.50
	89014	RP104	Mode Select (MODE-S) Beacon System	9/13/00	40.00
	88904	DP4	Coded Time Source	9/12/90	02.00
	88907	DP7	Test Equipment Console (TEC)	8/8/95	05.00
	88916	DP16	Direct Access Radar Channel (DARC)	11/4/99	16.00
	88919	DP18	Tandem Computer	9/25/90	12.00
	88920	DP19	FSAS-AFSS/FSPS	11/30/90	20.00
	88925	DP24	Peripheral Adapter Module Replacement Item (PAMRI)	5/20/91	04.00
	88926	DP25	CRAD/DFAD/DRAD	8/8/95	24.00
	88929	DP28	Central Computer Complex Host (CCCH) System, FIC266AD	9/7/99	18.00
	88930	DP29	HOST Interface Device/National Airspace System-Local Area Network (HNL)	11/3/99	05.00
	88932	DP31A	DSR, Part I, Support Systems	12/14/99	12.00
	88933	DP31B	DSR, Part II, Primary Systems	12/14/99	12.00
	88934	DP31C	DSR, Part III, Backup Systems	12/14/99	12.00
	NFP6	NFNP6	Wilcox 482 VOR	3/1/91	10.00
	NFP8	NFNP8	Non-Directional Beacons (NDB-MHW)	3/7/91	08.00
	NFP10	NFNP10	Non-Directional Beacon (Solid State)	3/7/91	12.00
	NFP12	NFNP12	EDO Model 780 VOR	11/30/90	10.00
	NFP14	NFNP14	E-Systems VOR	11/30/90	08.00
	NFP16	NFNP16	Microwave Landing System	3/8/91	20.00
	NFP17	NFNP17	Wilcox SDF/Localizer Type 1260/1261	2/5/91	08.00
	NFP18	NFNP18	Wilcox Markers	2/5/91	05.00

** Exam not currently available

APPENDIX 3. AIRWAY FACILITIES MAINTENANCE PERSONNEL CERTIFICATIONPROGRAM EXAMINATIONS (CONTINUED)

Figure 4. Previous Concept/Theory-of-Operations Examinations

	PMIS NO.	EXAM ID NO.	EXAMINATION TITLE	REMARKS
	88001	C1L	VHF FM LINK	Canceled 7/22/96
	88002	C1M	CMLT	Canceled 7/9/79
	88003	C1R	Recorders	Changed to C2 11/1/79
	88004	C1SR	IFSR	Canceled 7/11/96
	88005	C1SS	IFSS	Canceled 7/11/96
	88006	C1ST	IFST	Canceled 7/11/96
	88008	C3	RVR (IRA)	Canceled 6/17/94
	88012	C6	UVDF Remoting Equipment	Canceled 11/6/96
	88013	C7	UHF/VHF DF	Canceled 3/18/86
	88015	C9	RVR (Aeronca)	Canceled 3/18/86
	88019	C13	UVDF Remoting Equipment	Canceled 4/3/96
	88020	C14	CMLT (Motorola MR-20)	Canceled 4/3/96
	88021	C15	RVR Tasker 500	Canceled 3/12/86
	88027	C20	Statistical Multiplexers (Paradyne)	Canceled 3/11/98
	88028	C21	Automatic Network Management System Update (Paradyne)	Canceled 3/11/98
	88029	C22	Data Communication Modems Update	Canceled 3/11/98
	88030	C23	Data Communication Modem (Paradyne)	Canceled 3/11/98
	88031	C24	Stat-Mux for SFO	Canceled 3/11/98
	88032	C25	Statistical Multiplexers	Canceled 9/22/99
	88036	C29	ICSS Type II Litton ACD/VRS	Canceled 9/22/98
	88037	C30	Automatic Call Director (ACD)/Voice Retrieval System	Canceled 9/22/98
	88101	E1V	VNAS	Replaced by E3, E4 and E5 7/79
*	88103	E3	MALS/RAIL/REIL	Canceled 10/23/00
	88106	E6	Electrical Principles Phase II	Replaced by 88100-E1 4/1/86
	88198	E1D	Diesel Engine Generators	Canceled 7/9/79
	88199	E1G	Gasoline Engine Generators	Canceled 7/9/79
	88200	N1	VOR-VOT	Replaced by N11 and N12 7/9/79
	88201	N1D	VOR Doppler	Canceled 1/5/87
	88202	N2	TACAN Principles	Canceled 1/5/87
	88203	N2M	TACAN, RTC-3	Canceled 1/5/87
	88204	N3	ILS-LTDA	Repl by N12, N13 and N14 7/9/79
	88205	N3C	Capture Effect Glide Slope	Replaced by N20 7/9/79
	88206	N3V	V-Ring Localizer	Included in N13 7/9/79
	88207	N3W	ILS, Waveguide Localizer (Tube)	Canceled 6/17/94
	88209	N4R	SRA-MRL	Changed to N9 7/9/79
	88210	N5	DF	Combined in N6 and N7 7/79
	88211	N5D	Doppler DF	Combined in N6 7/9/79
	88212	N5V	VHF/VDF	Combined in N7 7/7/79
	88213	N6	UVDF (Doppler)	Changed to C6 7/9/79
	88214	N7	UDF/VDF	Changed to C7 7/9/79
	88215	N8	DME Principles	Replaced by N49 10/26/94
	88216	N9	SRA-MRL	Canceled 1/11/79
	88219	N12	ILS/VOR Principles	Replaced by N13 and N45 1/8/93
	88220	N13	ILS Concepts	Canceled 4/9/99 Replaced by 88257
	88225	N18	TACAN Principles	Canceled 8/30/99 Replaced by 88260
	88229	N22	TACAN, RTA-2/RTB-2	Canceled 1/5/87
	88230	N23	TACAN, RTC-2	Canceled 1/5/87
	88231	N24	TACAN, GRN-9A/B	Canceled 1/5/87

APPENDIX 3. AIRWAY FACILITIES MAINTENANCE PERSONNEL CERTIFICATION PROGRAM EXAMINATIONS (CONTINUED)

Figure 4. Previous Concept/Theory-of-Operations Examinations (Continued)

PMIS NO.	EXAM ID NO.	EXAMINATION TITLE	REMARKS
88232	N25	TACAN, GRN-9C	Canceled 2/2/87
88239	N32	TACAN (RTC-1) Monitor	Canceled 1/8/93
88244	N37	VOR Cardion Principles	Canceled 8/30/99 Replaced by 88259
88245	N38	ILS Common Principles	Replaced by N13 1/8/93
88246	N39	VOR/TACAN/DME Common Principles	Canceled 1/8/93
88249	N42	Common Principles Basic for Electronic Technicians	Changed to N42 #1,2,3,4 10/13/94
88250	N43	Common Principles Basic for Electrical Engineering Techs	Canceled 1/8/93
88251	N44	Computer Hardware Fundamentals	Canceled 6/10/96
88252	N45	Common Principles VOR/TACAN for Technicians	Canceled 8/30/99 Replaced by 88258
88296	N42	Common Principles Test 1, AC/DC & Transients	Canceled 4/1/99
88297	N42	Common Principles Test 2, Solid State Devices	Canceled 4/1/99
88298	N42	Common Principles Test 3, Digital Logic	Canceled 4/1/99
88299	N42	Common Principles Test 4, Antennas & Transmission Lines	Canceled 4/1/99
88300	R1	Basic Radar	Replaced by R10 and R11 7/9/79
88301	R1B	ATCBI-3 T/R/I	Canceled 1/8/87
88302	R1D	RBDE-3/4/5	Canceled 1/8/86
88303	R1E	RBDE-2	Canceled 7/9/79
88304	R1L	RMLT/R-1A/2/3/4	Canceled 6/22/82
88305	R1T	BRITE-1	Changed to R9 11/1/79
88306	R2	SECRA	Changed to R1-D 7/9/79
88307	R3	RBDE	Changed to R1-D 7/9/79
88308	R4	RML-T/R	Changed to R1-L 7/9/79
88309	R5	RML-1/2/3/4 Common Equipment	Canceled 4/8/96
88310	R6	RBDE Only (3/4/5)	Canceled 3/5/98
88311	R7	ATCBI-3 Indicator Site	Canceled 1/25/00
88312	R8	RMLT/R Only (1A/2/3/4)	Canceled 6/22/82
88313	R9	BRITE I	Canceled 3/20/96
88314	R10	Radar Principles A	Replaced by R42 7/2/91
88315	R11	Radar Principles B	Replaced by R42 7/2/91
88316	R12	RBDE-6 Scan Converter	Canceled 3/5/98
88318	R14	ATCBI-4 Storage Tube Defruiter	Canceled 11/1/79
88320	R16	RML-6 Terminal Equipment	Canceled 4/3/96
88321	R17	BRITE-2/4	Replaced by R33 7/9/79
88322	R18	RML-5 ARTCC Terminal	Canceled 4/3/96
88323	R19	ASR-4/5/6	Canceled 11/16/94
88325	R21	BRITE-1/2/4 TV Display	Canceled 3/6/96
88326	R22	BRITE-1/2/4 TV Display	Canceled 11/1/79 Use R16
88328	R24	RML-6 Common Equipment	Canceled 4/3/96
88329	R25	ASR-4/5/6 Transmitter Site	Canceled 4/2/98
88330	R26	Common Digitizer Height Only	Canceled 7/1/96
88332	R28	AN/TPX-42	Canceled 1/14/97
88337	R33	BRITE 2/4	Canceled 3/6/96
88338	R34	Terracom Television Microwave Link (TML)	Canceled 4/8/96
88339	R35	RML-1/2/3/4 Terminal Equipment	Canceled 4/3/96
88340	R36	TPX-42 BRITE Numerics	Canceled 4/24/96
88342	R38	Television Microwave Link (TML-IMC)	Canceled 4/8/96
88344	R40	ATCBI-3 Transmitter/Receiver	Canceled 1/25/00
88346	R42	Radar Principles	Canceled 8/19/99 Replaced by 88360
88352	R48	Common Digitizer-2 Model C	Canceled 6/16/98

** Exam not currently available

APPENDIX 3. AIRWAY FACILITIES MAINTENANCE PERSONNEL CERTIFICATION PROGRAM EXAMINATIONS (CONTINUED)

Figure 4. Previous Concept/Theory-of-Operations Examinations (Continued)

PMIS NO.	EXAM ID NO.	EXAMINATION TITLE	REMARKS
88354	R50	Common Digitizer-2, Models A, B, D	Canceled 6/16/98
88400	D1	Data Processing (ADIS, BDIS, APULS)	Canceled 7/9/79
88402	D3	Peripheral Devices	Canceled 6/17/98
88403	D4	DRG/IFDS	Canceled 11/2/94
88404	D5	FDEP Equipment	Canceled 6/17/94
88405	D6	IBM 9020A Processor	Canceled 5/9/96
88406	D7	IBM 9020 Input/Output (I/O) Equipment	Canceled 6/17/94
88407	D8	Direct Access Storage Facility (DASF)	Canceled 9/4/96
88408	D9	Input/Output Processor (IOP)	Canceled 1/5/87
88409	D10	Input/Output Processor Buffer (IOPB)	Canceled 1/5/87
88410	D11	ARTS III/IIIA Common	Canceled 1/5/87
88411	D12	ARTS III System	Canceled 1/5/87
88412	D13	ARTS IIIA System	Canceled 1/8/93
88413	D14	IBM 129/029 Card Punch-Print-Verifier	Canceled 6/17/94
88418	D19	ARTS IIIA Data Acquisition System	Canceled 4/24/96
88419	D20	NAS Operational Program for Host Technicians	Canceled 6/19/96
88421	D22	Computer Update Equipment (CUE)	Canceled 9/22/99
88422	D23	System Maintenance Monitor Console (SMMC)	Canceled 6/21/96
88424	D25	Interface Buffer Adapter Generator (IBAG)	Canceled 3/2/00
88426	D27	CDC Display for Technicians	Canceled 3/12/86
88427	D28	EARTS Display (PVD)	Canceled 6/4/99
88430	D31	Host Computer System (HCS) Enhanced Computer Opr Trng	Canceled 9/22/99
88431	D32	Radar Data Acquisition Subsystem	Canceled 9/22/99
88432	D33	Computer Display Channel (CDC) Software	Canceled 9/22/99

APPENDIX 3. AIRWAY FACILITIES MAINTENANCE PERSONNEL CERTIFICATION PROGRAM EXAMINATIONS (CONTINUED)

Figure 5. Previous Performance Examinations

PMIS NO.	EXAM ID NO.	EXAMINATION TITLE	REMARKS
88500	CP1A	RCAG	Combined in CP10 11/1/79
88501	CP1B	FSS	Combined in CP11 11/1/79
88502	CP1C	ARTCC	Combined in CP11 11/1/79
88503	CP1D	CS/T	Combined in CP11 11/1/79
88504	CP1E	RCO	Combined in CP10 11/1/79
88505	CP1F	RTR	Combined in CP10 11/1/79
88506	CP1G	ATCT	Combined in CP11 11/1/79
88507	CP1H	LRCO	Changed to CP12 11/1/79
88508	CP1I	LCOT	Changed to CP13 11/1/79
88509	CP2A	IFSS	Canceled 10/26/88
88510	CP2B	IFSR/SSB	Canceled 10/26/88
88511	CP2C	IFST/SSB	Canceled 10/26/88
88512	CP2D	IFST	Canceled 10/26/88
88513	CP2E	IFSR	Canceled 10/26/88
88514	CP3	UHF Communication Equipment	Combined in CP20 and CP21 11/1/79
88515	CP4	VHF Communication Equipment	Combined in CP20 and CP21 11/1/79
88516	CP5	FM Communication Equipment	Combined in CP22
88517	CP6	AMPS/Audio Equipment	Combined in CP20 and CP21 11/1/79
88518	CP7	Multi-Channel Recorder, Type CA-1700	Canceled 6/1/99
88519	CP8	Control and Monitoring	Combined in CP20 and CP21 11/1/79
88521	CP10	RCAG, RCAGL, RCO, RTR	Combined in CP20 11/1/79
88522	CP11	FSS, ARTCC, CS/T, ATCT, RAPCON	Combined in CP21 11/1/79
88523	CP12	LRCO	Combined in CP26
88524	CP13	LCOT	Combined in CP22
88525	CP14	RVR (IRA)	Combined in CP28
88526	CP15	RVV	Combined in CP28
88528	CP17	UDF	Canceled 11/1/79
88531	CP20	RCAG, RCAGL, RCO, RTR	Combined in CP26
88532	CP21	FSS, ARTCC, CS/T, ATCT, RAPCO, RATCC, TRACO	Combined in CP26
88533	CP22	LCOT	Split to CP53 and CP55 6/18/91
88534	CP23	RVR (SSR)	Combined in CP28
88535	CP24	RVR (Aeronca)	Combined in CP28
88536	CP25	ORES	Canceled 11/1/79
88537	CP26	CE (Communications Equipment)	Split to CP47 and CP51 6/18/91
88538	CP27	ATIS-TWEB	Split to CP41 thru CP46 6/18/91
88539	CP28	RVR/RVV	Split to CP48 thru CP50 and CP 56 thru CP60 6/18/91
88565	CP54	LCOT Farinon UHF Microwave Equipment	Canceled 4/20/98
88566	CP55	Control and Monitoring (Datalok 10/Model 935 Compander)	Canceled 4/20/98
88574	CP63	Rockwell/Collins MIR-2/Granger DTL-7300	Canceled 4/20/98
88600	EP1A	ALSF, MALS, SALS, RAIL	Replaced by EP5 and EP6 6/18/91
88605	EP1F	ARBCN	Canceled 8/16/96
88606	EP2	Critical Power Systems, ARTCC	Replaced by EP10 8/28/96
88607	EP3	Power Conditioning System ARTCC	Replaced by EP10 8/28/96

APPENDIX 3. AIRWAY FACILITIES MAINTENANCE PERSONNEL CERTIFICATION PROGRAM EXAMINATIONS (CONTINUED)

Figure 5. Previous Performance Examinations (Continued)

PMIS NO.	EXAM ID NO.	EXAMINATION TITLE	REMARKS
88703	NP4	Localizer	Combined in NP21 11/1/79
88704	NP5	Waveguide Localizer	Combined in NP21 11/1/79
88705	NP6	Null Reference Glide Slope	Combined in NP24 11/1/79
88706	NP7	Capture Effect Glide Slope	Combined in NP24 11/1/79
88709	NP10	L.F. Range	Canceled 11/1/79
88710	NP11A	TACAN, RTA-2 Antenna Speed Control	Combined in NP80 6/18/91
88717	NP16	VHF-DF	Changed to CP16 11/1/79
88718	NP17	UHF DF	Changed to CP17 11/1/79
88719	NP18	Doppler DF	Changed to CP18 11/1/79
88721	NP20	V-Ring Localizer	Combined in NP21 11/1/79
88722	NP21	ILS Localizer, AL-Loop, WG and V-Ring	Split to NP88 thru NP91 6/18/91
88723	NP22	ILS, AIL Type 55	Split to NP42 thru NP44 6/18/91
88726	NP25	ILS, Wilcox Mark-IA	Split to NP45, NP46, NP47 6/18/91
88727	NP26	ILS, AIL Mark-1B	Split to NP67 thru NP70 6/18/91
88728	NP27	ILS, Wilcox Mark-IC	Split to NP48 thru NP52 and NP85
88729	NP28	ILS, GRN-27, Cat II	Split to NP58 thru NP61 6/18/91
88730	NP29	DME, Butler 1020/Wilcox 595/596	Split to NP92 and NP93 6/18/91
88732	NP31	ILS, Glide Slope (Comp. SS and Tube)	Changed to NP71 thru NP73 6/18/91
88734	NP33	ILS, Wilcox Mark-ID	Split to NP62 thru NP66 6/18/91
88735	NP34	DME Cardion (FA-8974)	Replaced by NP74 and NP75 6/18/91
88737	NP36	VOR Wilcox 476B/585B	Replaced by NP86 and NP87 6/18/91
88738	NP37	Second Generation VORTAC	Split to NP76 thru NP81 6/18/91
88739	NP38	ILS, Wilcox Cat II	Split to NP82 thru NP85 6/18/91
88740	NP39	ILS Wilcox Mark 1F	Split to NP53 thru NP57 6/18/91
88800	RP1	ASR 1/2/3/2M/2D	Canceled 4/24/96
88801	RP2	ASR 4/5/6	Split to RP65 thru RP70 6/18/91
88803	RP4	ASDE-2 FA-6600	Canceled 6/1/99
88804	RP5A	ATCBI-3 (Radar Site)	Canceled 6/1/99
88805	RP5B	ATCBI-2/3 (Indicator Site)	Split into RP78 and RP79 6/18/91
88808	RP8	PAR-1	Canceled 11/1/79
88809	RP9	PAR-2	Canceled 11/1/79
88810	RP10	FPN-16	Replaced by RP85 6/18/91
88811	RP11	RBDE-1/2	Canceled 11/1/79
88813	RP13	RBDE-4	Canceled 3/5/98
88814	RP14	RBDE 5/5A and RBDE 6 Horizontal Display	Canceled 3/5/98
88812	RP12	RBDE-3	Canceled 4/24/96
88815	RP15	LMWT	Combined in RP29 11/1/79
88816	RP16	LMWR	Combined in RP29 11/1/79
88817	RP17	FPS-7	Canceled 7/13/87
88818	RP17M	FPS-7 Modified	Canceled 7/13/87
88819	RP18	FPS-20/91	Canceled 7/13/87
88820	RP19A	FPS-24 (XTR)	Canceled 11/1/79
88821	RP19B	FPS-24 (RCV)	Canceled 11/1/79
88822	RP19C	FPS-24 (V.P.)	Canceled 11/1/79
88823	RP19AM	FPS-24 (XTR) Modified	Canceled 11/1/79
88824	RP19BM	FPS-24 (RCV) Modified	Canceled 11/1/79
88825	RP19CM	FPS-24 (V.P.) Modified	Canceled 11/1/79
88826	RP20A	FPS-27 (XTR)	Canceled 11/1/79
88827	RP20B	FPS-27 (RCV)	Canceled 11/1/79

APPENDIX 3. AIRWAY FACILITIES MAINTENANCE PERSONNEL CERTIFICATION PROGRAM EXAMINATIONS (CONTINUED)

Figure 5. Previous Performance Examinations (Continued)

PMIS NO.	EXAM ID NO.	EXAMINATION TITLE	REMARKS
88828	RP20C	FPS-27 (V.P.)	Canceled 11/1/79
88829	RP21A	FPS-35 (XTR)	Canceled 11/1/79
88830	RP21B	FPS-35 (RCV)	Canceled 11/1/79
88831	RP21C	FPS-35 (V.P.)	Canceled 11/1/79
88832	RP22	FPS-66/64	Combined in RP32 11/1/79
88833	RP23	FPS-67	Combined in RP32 11/1/79
88836	RP26	MPN-13	Canceled 11/1/79
88837	RP27	FPS-6	Canceled 11/1/79
88839	RP29	RMLT/RMLR 1A, 2, 3, 4	Replaced by RP80 & RP81 6/18/91
88840	RP30	BRITE 1	Split to RP63 and RP64
88844	RP34	BRITE 2/4	Split to RP59 and RP60
88846	RP36	RMLT/RMLR-6	Replaced by RP82, 83 & 84 6/18/91
88847	RP37	RMLT-5 Radar Site	Canceled 4/20/98
88849	RP39	ARTS III	Canceled 4/24/96
88853	RP43	BRITE-4, TV Display BRITE-I, II, IV	Split to RP61 and 62 6/18/91
88854	RP44	RBDE-6	Canceled 11/1/79
88855	RP45	BRITE 1/2/4 (TV Display)	Replaced by RP73 6/18/91
88859	RP49	SS Video Mapper, Options A, B, & C	Replaced by RP74 & RP75 6/18/91
88860	RP50	BRITE A/N Subsystem (BANS)	Canceled 4/3/96
88861	RP51	ARTS II	Canceled 3/6/96
88862	RP52	TV Microwave Link TMLT/TMLR/TMLI	Replaced by RP76 and RP77 11/15/90
88864	RP54A	ARTS IIIA	Replaced by RP91 6/18/91
88866	RP56	EARTS	Canceled 3/10/98
88867	RP57	IMC, TML	Replaced by RP71 & RP72 11/30/90
88869	RP59	BRITE 2 Pri/TV Camera FA-8179/8182	Canceled 4/24/96
88870	RP60	BRITE 2 TV Display FA-8181	Canceled 4/24/96
88871	RP61	BRITE 4 PPI/TV Camera FA-8959-1/8959-4	Canceled 4/24/96
88872	RP62	BRITE 4 TV Display FA-8959-3	Canceled 4/24/96
88873	RP63	BRITE 1 PPI/TV Camera FA-7848/7851	Canceled 4/24/96
88874	RP64	BRITE 1 TV Display FA-7852	Canceled 4/24/96
88875	RP65	ASR-4 Transmitter FA-4700	Canceled 6/1/99
88876	RP66	ASR-5D/E, 6D/E Transmitter FA-4900/5900	Canceled 6/1/99
88877	RP67	ASR-4 Display System FA-4800	Canceled 6/1/99
88878	RP68	ASRDS Display System FA-7300	Canceled 4/24/96
88879	RP69	ASRDS-2 Display System FA-7700	Canceled 4/24/96
88880	RP70	ASRDS-3 Display System FA-8150	Canceled 4/24/96
88888	RP78	ATCBI-2 Indicator Site	Canceled 6/1/99
88889	RP79	ATCBI-3 Indicator Site	Canceled 6/1/99
88890	RP80	RMLI 1A/2/3/4 Indicator Site	Canceled 4/3/96
88891	RP81	RMLR 1A/2/3/4 Radar Site	Canceled 4/3/96
88892	RP82	RMLT-6 Radar Site	Canceled 4/20/98
88893	RP83	RMLR-6 Repeater Site	Canceled 4/20/98
88894	RP84	RMLI-6 Indicator Site	Canceled 4/20/98
88895	RP85	PAR Precision Approach Radar (GPN-22)	Canceled 6/1/99
88898	RP88	RMLI-5, Indicator Site	Canceled 4/3/96
88899	RP89	RMLR-5, Repeater Site	Canceled 4/3/96
88900	DP1	APULS	Canceled 11/1/79
88901	DP2	ADIS	Canceled 11/1/79
88902	DP3	BDIS	Canceled 11/01/79

APPENDIX 3. AIRWAY FACILITIES MAINTENANCE PERSONNEL CERTIFICATION PROGRAM EXAMINATIONS (CONTINUED)

Figure 5. Previous Performance Examinations (Continued)

PMIS NO.	EXAM ID NO.	EXAMINATION TITLE	REMARKS
88903	DP3	FDEP/ANK	Canceled 6/29/87
88905	DP5	CDC Display (CDC-D)	Canceled 9/22/99
88906	DP6	Computer Update Equipment (CUE)	Canceled 9/22/99
88908	DP8	CDC Processor (CDC-P)	Canceled 9/22/99
88909	DP9	System Maintenance Monitor Console (SMMC)	Canceled 5/2/96
88910	DP10	DRG/IFDS	Canceled 11/14/94
88911	DP11	Peripheral Devices	Canceled 5/2/96
88912	DP12	IBM 129 Keypunch (Card Data Recorder)	Canceled 5/2/96
88913	DP13	Direct Access Storage Facility (DASF)	Canceled 5/2/96
88914	DP14	Central Computer Complex (CCC-9020-A)	Canceled 5/2/96
88915	DP15	Central Computer Complex I/O (CCC-I/0)	Canceled 5/2/96
88917	DP14A	Central Computer Complex (CCC-9020-D)	Canceled 5/2/96
88918	DP17	Display Channel Processor (9020E)	Canceled 9/22/99
88921	DP20	CCCH "HOST"	Replaced by DP21 & DP22 6/18/91
88922	DP21	Host Computer System (CCCH)	Canceled 9/22/99 Replaced by DP28
88923	DP22	Peripheral Adapter Module (PAM) 7289-2	Canceled 5/2/96
88924	DP23	1052 Input/Output Typewriter (IOT)	Canceled 5/2/96
88927	DP26	Display Channel Complex Rehost (DCCR)	Canceled 9/22/99
88928	DP27	DSR Control Room Hardware Maintenance	Canceled 9/22/99
88931	DP30	DSR System Management	Canceled 7/26/00

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APPENDIX 4. AIRWAY FACILITIES MAINTENANCE PERSONNEL CERTIFICATION PROGRAM ON-THE-JOB-TRAINING

1. The figures contained in appendix 4 are issued with this order. The most current official figures are located on the FAA Academy AF Training Bulletin Board and are available for review and downloading. This electronic accessibility provides the user with the most current information available (see note below).

2. Figure 1 of this appendix lists the current available OJT to be used when granting personnel certification authorization. Descriptions of the available OJT courses may be found in FIST.

NOTE: Any additions, deletions, or corrections to this appendix shall be forwarded to the Airway Facilities Training Operations and Technologies Support Branch, AMA-405, through the appropriate regional AF division AXX-400, training representative. No additions, deletions, or corrections will be posted without prior approval from the FAA Headquarters AF Training Division. Upon approval, this information will be added to appendix 4. This appendix will be maintained and updated by AMA-405 and made available for downloading via the FAA Academy AF Training Bulletin Board. All additions, deletions, or corrections will be annotated with an asterisk for easy reference and identified in Appendix 7, Record of Changes to Appendices 3 through 6. The appendices listed on the FAA Academy AF Training Bulletin Board shall be the official source for Order 3400.3.

3. The appendices will be reviewed monthly and updated as required. A new revision date shall be added to the appendix, and a notice will be posted on the FAA Academy AF Training Bulletin Board indicating the revision date, name, and location of the file. The file names to be used shall be as follows:

APPENDIX	FILENAME	EXTENSION
Appendix 4	APP4-038	.doc

(Filename shows the latest revision date; i.e., "03" indicates the month and "8" indicates the year.)

APPENDIX 4. AIRWAY FACILITIES MAINTENANCE PERSONNEL CERTIFICATION PROGRAM ON-THE-JOB-TRAINING

Figure 1. Current Formalized On-the-Job-Training

PMIS No.	OJT TITLE	TIME (HRS)

This appendix shall be populated as formalized OJT is developed.

APPENDIX 5. AIRWAY FACILITIES MAINTENANCE PERSONNEL CERTIFICATION PROGRAM PERFORMANCE EXAMINATIONS

1. The figures contained in appendix 5 are issued with this order. The most current official figures are located on the FAA Academy AF Training Bulletin Board and are available for review and downloading. This electronic procedure provides the user with the most current information available (see note below). This appendix lists the certification requirements for the personnel certification program with the following figures:

a. Figure 1. System, Subsystem, Equipment, or Service With Available Examinations.

b. Figure 2. Verification Examinations for Non-Federal Facilities.

c. Figure 3. Previous Verification Examinations for Non-Federal Facilities.

NOTE: Any additions, deletions, or corrections to this appendix shall be forwarded to the Airway Facilities Training Operations and Technologies Support Branch, AMA-405, through the appropriate regional AF division AXX-400, training representative. No additions, deletions, or corrections will be posted without prior approval from the FAA Headquarters AF Training Division. Upon approval, this information will be added to appendix 3. This appendix will be maintained and updated by AMA-405 and made available for downloading via the FAA Academy AF Training Bulletin Board. All additions, deletions, or corrections will be annotated with an asterisk for easy reference and identified in Appendix 7, Record of Changes to Appendices 3 through 6. The appendices listed on the FAA Academy AF Training Bulletin Board shall be the official source for Order 3400.3.

2. The appendices will be reviewed monthly and updated as required. A new revision date shall be added to the appendix, and a notice will be posted on the FAA Academy AF Training Bulletin Board indicating the revision date, name, and location of the file. The file names to be used shall be as follows:

APPENDIX	FILENAME	EXTENSION
Appendix 5	APP5-038	.doc

(Filename shows the latest revision date; i.e., "03" indicates the month and "8" indicates the year.)

APPENDIX 5. AIRWAY FACILITIES MAINTENANCE PERSONNEL CERTIFICATION PROGRAM PERFORMANCE EXAMINATIONS (CONTINUED)

Figure 1. System, Subsystem, Equipment, or Service With Available Examinations

SYSTEM/SUBSYSTEM/EQUIPMENT/SERVICE	MANDATORY CERTIFICATION DATE	THEORY-OF-OPERATIONS	PERFORMANCE EXAMINATIONS	AREA
ATIS-TWEB Automatic Electric Type FA-65-WA-1347	05/01/74	C2	CP41	Com
ATIS-TWEB Stancil-Hoffman, Type TRC-89	06/01/99	C2	CP42	Com
ATIS-TWEB Types CA-3409A and FA-5210	06/01/99	C2	CP43	Com
ATIS-TWEB Type FAA-9758	06/01/99	C2	CP44	Com
ATIS-AMPRO TWEB	06/01/99	C2	CP45	Com
ATIS, COMEX (Solid State) FA-10012	08/06/93	Any solid state device course	CP46	Com
ATIS, FA-10146 (Digital)	08/06/93	Any solid state device course	CP61	Com
AWOS, Qualimetrics	06/01/99	43026	CP62	Com
BUEC ARTCC Site	05/07/80	C11	CP32 and CP34	Com
BUEC Remote Site FA-8190/8191	08/06/93	C10	CP32	Com
CMLT (Farinon/W)	05/07/80	C13	CP36	Com
Communications Equipment	10/30/66	C1	CP47 thru CP52	Com
DASI Digital Altimeter	08/06/93	SSD	CP9	Com
DF Solid State Type FA-9964	08/06/93	C17	CP39	Com
ICSS, Type 1	06/01/99	40023	CP47 thru CP52	Com
LCOT	10/30/66	C1 and C1L	CP52	Com
LCOT Control and Monitoring Equipment	10/30/66	C1 and C1L	CP55	Com
LCOT (Frequency Modulation Equipment)	10/30/66	C1 and C1L	CP53	Com
LLWAS (Climatronics)	06/01/99	47711	CP38	Com
LLWAS, FA-10240	08/06/93	C16	CP37	Com
LLWAS-NE Type FA-10387	06/01/99	40030	CP66	Com
RBC	01/01/72	C5	CP19	Com
Recorders (TR-1710/1720 Magnasync)	05/01/75	C2	CP31	Com
Recorders (High Capacity Voice)	05/07/80	C12	CP33	Com
Recorders (Leach 5-Channel FA-8144)	08/06/93	C2	CP29	Com
Recorders (Dictaphone 5000)	03/23/90	D29	CP40	Com
RVR (Aeronca)	01/01/72	C9	CP56 and CP59	Com
RVR (FA-7861, SSR)	05/01/73	C8	CP56 and CP57	Com
RVR (IRA)	05/01/70	C3	CP56 and CP58	Com
RVR (Teledyne)	02/09/99	40279	CP64	Com
RVR (T500)	08/06/93	C15A	CP56 and CP60	Com
RVV	01/01/72	C4	CP56	Com
TWEB	See ATIS	C2	CP41 thru CP46	Com
VDF Doppler, FA-5530	10/30/66	C6	CP18	Com
VDF (Doppler Remoting Equipment)	05/01/74	C6R	CP30	Com
VDF (Type CA-3300)	None	Not available	CP16	Com
Voice Switching and Control System (VSCS)	7/28/97	C33A, C33B, and C33C	CP67	Com
Wind/Altimeter Equipment (Mech.)	10/30/66	Any electronic course	CP9	Com
ARTS-IIIA Data Entry Display System (DEDS)	08/06/93	D18	RP91	Dat
Central Computer Complex (CCC/H)	None	Not available	DP28	Dat
Coded Time Source	09/30/78	D2	DP4	Dat
Computer Display Channel Display (CDC-D)	None	Not available	DP5	Dat
Comp. Display Channel Processor (CDC-P)	06/01/99	43423	DP8	Dat
Computer Display Channel Processor 9020E	None	Not available	DP17	Dat

APPENDIX 5. AIRWAY FACILITIES MAINTENANCE PERSONNEL CERTIFICATION PROGRAM PERFORMANCE EXAMINATIONS (CONTINUED)

Figure 1. System, Subsystem, Equipment, or Service With Available Examinations (Continued)

	FACILITY TYPE MANUFACTURER	MODEL OR EQUIPMENT TYPE	THEORY-OF-OPERATIONS	PERFORMANCE EXAMINATION	
	Computer Update Equipment (CUE)	08/06/93	D22	DP6	Dat
	Cont. Data Recording System (CDR/ARTS-IIIA)	08/06/93	D24	RP91	Dat
	CRAD/CFAD/DRAD	None	None	DP25	Dat
	Data Acquisition Subsystem, ARTS-IIIA (DAS)	08/06/93	D19	RP91	Dat
	Data Process Subsystem (ARTS-IIIA/EARTS)	08/06/93	D17	RP91	Dat
	Direct Access Radar Channel (DARC)	06/01/99	43519	DP16	Dat
	DSR System Management	11/30/99	48208 or 43557	DP30	Dat
*	Display System Replacement	01/14/00	48244 or 43556	DP31A, B, C	Dat
	FSAS-AFSS/FSDS	06/01/99	43002	DP19	Dat
	HOST Interface Device/National Airspace System-Local Area Network (HNL)	11/05/99	47410	DP29	Dat
	Maintenance Processor Subsystem	06/01/99	43048	DP18	Dat
	Peripheral Adapter Module Replacement Item (PAMRI)	06/01/99	43012	DP24	Dat
	Test Equipment Console (TEC)	06/01/99	43419	DP7	Dat
	ALSF	10/01/69	E4	EP5	Env
	ATCT E/G Power Distribution	06/01/99	47608	EP9	Env
	Critical Power Systems, ARTCC	06/26/97	E9A, E9B, and E9C	EP10	Env
	LDIN	01/01/72	E1	EP1C	Env
	MALS	01/01/72	E3	EP5 and EP6	Env
	MALSR Multi-Electric FA-9425/1	01/01/72	E3	EP6	Env
	ODALS (Omnidirectional Approach Light System)	08/06/93	E1 and E3 or E4	EP4	Env
	Precision Approach Path Indicator (PAPI) - Sonicraft	05/13/91	44115	EP8	Env
	Power Conditioning System	07/23/96	E1	EP10	Env
	RAIL	01/01/72	E3	EP5	Env
	REIL	10/01/69	E3	EP1C	Env
	SALS	01/01/72	E4	EP5	Env
	UPS (Exide)	08/06/93	E8	EP7	Env
	VASI	10/01/69	E5	EP1B	Env
	DME, Butler, Model 1020	08/06/93	N19	NP92	Nav
	DME, Cardion, FA-9639	05/07/80	N45 and N31	NP74	Nav
	DME, Cardion, FA-8974	05/07/80	N45 and N26	NP75	Nav
	DME, Cardion, FA-9783	05/07/80	N45 and N36	NP40	Nav
	DME, (TT)	10/01/69	N2 or N8 or N39	NP19	Nav
	DME, Wilcox Model 596B	08/06/93	N19	NP93	Nav
	Endfire Glideslope Antenna System	06/01/99	47709	NP99	Nav
	ILS, AIL, Mark-1B	09/01/74	N13 and N16	NP67 thru 70	Nav
	ILS, AIL, Type 55	12/01/73	N13 and N16	NP42 thru 44	Nav
	ILS, Glide Slope, Capture Effect (Solid State)	08/06/93	N13 and N20	NP56 or NP73, NP65	Nav
	ILS, Glide Slope, Capture Effect (Tube Type)	10/30/66	N13, N14, and N20	NP73	Nav
	ILS, Glide Slope, Capture Effect (AN/GRN27)	08/06/93	N13 and PVE44712	NP61	Nav
	ILS, GS, Capture Effect Wilcox CAT III (FA-9760)	None	Not available	NP85	Nav
	ILS, Glide Slope, Null Reference (Tube Type)	10/30/66	N13 and N14	NP71	Nav

APPENDIX 5. AIRWAY FACILITIES MAINTENANCE PERSONNEL CERTIFICATION PROGRAM PERFORMANCE EXAMINATIONS (CONTINUED)

Figure 1. System, Subsystem, Equipment, or Service With Available Examinations (Continued)

SYSTEM/SUBSYSTEM/EQUIPMENT/SERVICE	MANDATORY CERTIFICATION DATE	THEORY-OF-OPERATIONS	PERFORMANCE EXAMINATIONS	AREA
ILS, Glide Slope, Null Reference AN/GRN27	08/06/93	N13 and N17	NP59	Nav
ILS, GS, Null Reference Wilcox Mark 1D/1E (FA-9365)	08/06/93	N28	NP63	Nav
ILS, GS, Null Reference Wilcox Mark 1F (FA-9919)	08/06/93	N28	NP54	Nav
ILS, GS, Null Reference Wilcox CAT III Type FA-9760/5	None	Not available	NP84	Nav
ILS, GS, Sideband Reference (Tube Type)	10/30/66	N13 and N33	NP72	Nav
ILS, Localizer, Alford Loop	10/30/66	N13 and N14	NP89	Nav
ILS, Localizer, AN/GRN27	10/30/66	N13 and N17	NP58	Nav
ILS, Localizer, Traveling Wave	10/30/66	N13 and N17	NP90	Nav
ILS, Localizer, Wilcox Cat III Type FA-9759	None	Not available	NP82	Nav
ILS, Localizer, V-Ring	10/01/70	N13 and N14	NP88	Nav
ILS, Localizer, Wave Guide	10/30/66	N13 and N14, N3W	NP91	Nav
ILS, Wilcox, Mark 1A	09/01/74	N13 and N15	NP45 thru N47	Nav
ILS, Wilcox, Mark 1C	05/01/75	N13 and N15	NP48 thru N52	Nav
ILS, Wilcox, Mark 1D Localizer	05/07/80	N13 and N27	NP62	Nav
ILS, Wilcox, Mark 1D Marker Beacon	05/07/80	N13 and N29	NP30, NP57, or NP66	Nav
ILS, Wilcox, Mark 1D Null Reference Glide Slope	05/07/80	N13 and N14	NP63	Nav
ILS, Wilcox, Mark 1E/F Localizer	08/06/93	N13 and N27	NP53 or NP62	Nav
ILS, Wilcox, Mark 1E/F Marker Beacon	08/06/93	N13	NP30, NP57, or NP66	Nav
ILS, Wilcox, Mark 1E/F Null Reference Glide Slope	08/06/93	N13 and N14	NP63 or NP54	Nav
ILS, Wilcox, Mark Cat III Marker FA-9761	08/06/93	N13 and N29	NP83	Nav
ILS, Wilcox, Mark 20	05/31/97	N50	NP96	Nav
Markers (AN/GRN27)	10/30/66	N4	NP60	Nav
Markers (Tube Type)	10/30/66	N4	NP9	Nav
Markers (Solid State)	08/06/93	N4 or N29	NP30 or NP47 or NP51 or NP70	Nav
NDB-COMLO	10/30/66	N4 or C1	NP8	Nav
NDB Nautel NX 8000BD-02001	None	Not available	NP94	Nav
NDB Scientific Radio (FA-9589/9591)	06/01/99	44218	NP95	Nav
Remote Radio Controlled Visual Navaids	06/01/99	44218	NP32	Nav
TACAN, Antenna Speed Control, AM-1720	10/30/66	N2 or N39	NP11B	Nav
TACAN, Antenna Group, RTA-2	10/30/66	N2 or N39	NP80	Nav
TACAN, Antenna Speed Control, C-2634	10/30/66	N2 or N39	NP11C	Nav
TACAN Antenna Speed Control, FA-6247/6238/10639	10/30/66	N2 or N39	NP80	Nav
TACAN, GRN-9A/B/C	10/30/66	N2 or N39	NP15	Nav
TACAN, RTA/RTB-2	10/30/66	N2 or N39	NP12	Nav
TACAN, RTC-1	10/30/66	N2 or N39	NP13	Nav
TACAN, RTC-2	10/30/66	N2 or N39	NP14	Nav
TACAN, RTC-3	05/01/74	N2 or N39	NP23	Nav
VOR, Cardion (SS) FA-9467	05/07/80	N12 and N45	NP35	Nav
VOR, Doppler, 2nd Generation FA-9996	08/06/93	N45, N39 and N40	NP41	Nav

APPENDIX 5. AIRWAY FACILITIES MAINTENANCE PERSONNEL CERTIFICATION PROGRAM PERFORMANCE EXAMINATIONS (CONTINUED)

Figure 1. System, Subsystem, Equipment, or Service With Available Examinations (Continued)

FACILITY TYPE MANUFACTURER	MODEL OR EQUIPMENT TYPE	THEORY-OF-OPERATIONS	PERFORMANCE EXAMINATION	
VOR, Doppler Tube Type	10/30/66	N45 and N1D	NP3	Nav
VOR, Tube Type	10/30/66	N45 and N11	NP1	Nav
VOR, Wilcox Model 476B	06/01/99	48176	NP86	Nav
VOR, Wilcox Model 585B	06/01/99	48176	NP87	Nav
VORTAC, 2nd Generation BCPS FA-9996/1	08/06/93	N45, N39 and N35	NP76	Nav
VORTAC, 2nd Generation FCPU FA-9996/2	08/06/93	N45, N39 and N35	NP77	Nav
VORTAC, 2nd Generation RMCF FA-9996/7	08/06/93	N45, N39 and N35	NP78	Nav
VORTAC, 2nd Generation VORTAC DME/TACAN FA-9996/3	08/06/93	N45, N39, and N35	NP79	Nav
VORTAC/DME 3rd Generation (VOR Portion)	06/01/99	40286	NP97	Nav
VORTAC/DME 3rd Generation (FCPU Portion)	06/01/99	40286	NP98	Nav
VOT	10/30/66	N47 and N10	NP2	Nav
AN/FPS-117 Minimally Attended Radar (MAR)	06/01/99	40399	RP100	Rad
AN/GPN-21/ASR-8 Transmitter Site	08/06/93	R32	RP55	Rad
ARSR-1/2, /60, /FPS-20 (SSR/DMTI)	None	Not available	RP93	Rad
ARSR-1/2 Indicator Site	10/30/66	R42	RP24	Rad
ARSR-1/2 T/R Site	10/30/66	R29 and R42	RP3	Rad
ARSR-3 T/R Site	08/06/93	R41 and R42	RP94	Rad
ARSR-3 Indicator Site	08/06/93	R42	RP24	Rad
ARSR-4	06/01/99	40408	RP101	Rad
ARSR-60/60M	06/01/99	40408	RP86	Rad
ARTS-IIA Type FA-9020	None	Not available	RP90	Rad
ASR-7/7E/7F (Radar Site)	09/01/74	R13 and R42	RP35	Rad
ASR-8	05/07/80	R32 and R42	RP48	Rad
ASR-9 Systems	06/01/99	40391	RP95	Rad
ATCBI-4, FA-8470	06/01/99	R15	RP33	Rad
ATCBI-5 FA-9400	11/01/78	R31 and R42	RP53	Rad
CD Common Digitizer-2A/B/C/D	06/01/99	43549	RP96	Rad
CD, FYQ-47/49	05/01/75	46517	RP40	Rad
CD, Height Only	06/15/78	46517	RP40	Rad
DBRITE-Digital BRITE	06/01/99	40373	RP97	Rad
FPS-20/91	10/30/66	R42	RP87	Rad
FPS-65A	05/01/73	R42	RP31	Rad
FPS-66/67	10/30/66	R42	RP32	Rad
FPS-90/FPS-6/FPS-116	05/01/75	R42	RP41A	Rad
RCL Area Control	None	Not available	RP92	Rad
RCL Repeater	None	Not available	RP58	Rad
Terminal Doppler Weather Radar (TDWR)	06/01/99	40313	RP99	Rad
TML-3 Microwave Transmitter FA-9797	None	Not available	RP71	Rad
TML-3 Microwave Receiver FA-9798	None	Not available	RP72	Rad
TML TCM-6 Transmitter	None	Not available	RP76	Rad
TML TCM-6 Receiver	None	Not available	RP77	Rad
UPX-14	10/30/66	R42	RP6	Rad
UPX-6/UPX-9B	10/30/66	R42	RP7	Rad
Video Mapper Group AN/GPS-131(V)	None	Not available	RP73	Rad
Video Mapper Group FA-8049	06/01/99	40328	RP74	Rad
Video Mapper, Five Channel FA-8970	06/01/99	40328	RP75	Rad
Marker-Wilcox		NFN8	NFNP18	NF

APPENDIX 5. AIRWAY FACILITIES MAINTENANCE PERSONNEL CERTIFICATION PROGRAM PERFORMANCE EXAMINATIONS (CONTINUED)

Figure 1. System, Subsystem, Equipment, or Service With Available Examinations (Continued)

SYSTEM/SUBSYSTEM/EQUIPMENT/SERVICE	MANDATORY CERTIFICATION DATE	THEORY-OF-OPERATIONS	PERFORMANCE EXAMINATIONS	AREA
MLS-Microwave Landing System		NFN16 or NFN17	NFNP16	NF
NDB Non-Directional Beacon (NDB-MHW)		NFN8	NFNP8	NF
NDB Non-Directional Beacon-Solid State		Use FAA Exam	NPNP10	NF
SDF/LOC Wilcox SDF/LOC Type 1260/1261		NFN13	NFNP17	NF
VOR Wilcox 482		Use FAA Exam	NFNP6	NF
VOR E-Systems		NFN14	NFNP14	NF
VOR EDO Model 780		NFN12	NFNP12	NF

APPENDIX 5. AIRWAY FACILITIES MAINTENANCE PERSONNEL CERTIFICATION PROGRAM PERFORMANCE EXAMINATIONS (CONTINUED)

Figure 2. Verification Examinations for Non-Federal Facilities

	FACILITY TYPE	MANUFACTURER	MODEL OR EQUIPMENT TYPE	THEORY-OF-OPERATIONS	PERFORMANCE EXAMINATION
	DME	Aviation Incorporated	1118	NFN-18	
	DME	Butler	1020	NFN-11	
	DME	"E" System		NFN-15	
	DME	Wilcox	595/596	Use FAA Exam	
	ILS	AIL	55	Use FAA Exam	Use FAA Exam
	ILS	Wilcox	Mark 1B	Use FAA Exam	Use FAA Exam
	LFM	Kinn Electronic Corp.	FA-5791, KEC 6072	NFN-8	NFNP-9
	LFM	Wilcox	492B	NFN-8	NFNP-9
	Marker	Various Manufacturers	Tube Type	Use FAA Exam	Use FAA Exam
*	Marker	Wilcox		NFN-13	NFNP18
	MLS	Hazeltine	2500-N	NFN-16	NFNP-16
	MLS	Various Manufacturers	MLS System Concepts Examination	NFN-17	N/A
	NDB-MHW	Aerocom, Inc.	25XLA, 50HXS/3, MH-50, 100XLA	NFN-8	NFNP-8
	NDB-MHW	Aeronautical Comm. Equipment Co.	50HXS, 50SLA, 50XLG	NFN-8	NFNP-8
	NDB-MHW	Air Associates, Inc.	TMO	NFN-8	NFNP-8
	NDB-MHW	Continental Radio	250M	NFN-8	NFNP-8
	NDB-MHW	Fran Air Products	MH50	NFN-8	NFNP-8
	NDB-MHW	Hazeltine Corporation	TMO	NFN-8	NFNP-8
	NDB-MHW	National	TMS-1, TUS-1	NFN-8	NFNP-8
	NDB-MHW	Northern Radio	N52BE	NFN-8	NFNP-8
	NDB-MHW	Southern Avionics	H50, 50HA, SAC50, AM25, H25, H25-A	NFN-8	NFNP-8
	NDB-MHW	Southern Avionics	SS250	NFN-10	NFNP-10
	NDB-MHW	Spartan Co.	CTRX25	NFN-8	NFNP-8
	NDB-MHW	Technical Devices Corp.	BC-329N	NFN-8	NFNP-8
	NDB-MHW	Trans Texas Airways	Type 25	NFN-8	NFNP-8
	NDB-MHW	Wilcox	785D	NFN-10	NFNP-10
*	SDF/LOC	Wilcox	1260/1261 Marker	NFN-13	NFNP-17
	VOR	"E" Systems		NFN-14	NFNP-14
	VOR	Edoaire	780	NFN-12	NFNP-12
	VOR	FAA/Memco	Tube Type	Use FAA Exam	Use FAA Exam
	VOR	Wilcox	476A/B, 585B	Use FAA Exam	Use FAA Exam
	VOR	Wilcox	482	Use FAA Exam	NFNP-6

APPENDIX 5. AIRWAY FACILITIES MAINTENANCE PERSONNEL CERTIFICATION PROGRAM PERFORMANCE EXAMINATIONS (CONTINUED)

Figure 3. Previous Verification Examinations for Non-Federal Facilities

EXAM NUMBER	EXAM TYPE	EXAMINATION TITLE	REMARKS
NFN-1	Concepts	Wilcox 412 ILS	
NFN-2	Concepts	AIL Type 55 ILS	Use FAA Examinations
NFN-4	Concepts	Collins 101 VOR	
NFN-5	Concepts	FAA/Memco VOR, Tube-Type	
NFN-6	Concepts	Wilcox 482 Solid State VOR	
NFN-9	Concepts	Wilcox Mark 1B ILS	Use FAA Examinations
NFNP-1	Performance	ILS Wilcox 412 and Mark 1B	Use FAA Examinations
NFNP-2	Performance	AIL Type 55 ILS	Use FAA Examinations
NFNP-3	Performance	VOR Wilcox Model 476A/B	Use FAA Examinations
NFNP-4	Performance	Collins 101 VOR	
NFNP-5	Performance	FAA/MEMCO Tube-Type VOR	
NFNP-9	Performance	Marker-Tube Type	Use FAA Examinations
NFNP-13	Performance	Wilcox 1260/1261 SDF/Marker	Split into NFNP-17 and NFNP-18

APPENDIX 6. INSTRUCTIONS FOR ACCESSING THE FAA ACADEMY AF TRAINING BULLETIN BOARD

1. The official source for retrieval of data/forms pertinent to Order 3400.3, Appendix 3, Airway Facilities Maintenance Personnel Certification Program Examinations; Appendix 4, Airway Facilities Maintenance Personnel Certification Program On-the-Job-Training; and Appendix 5, Airway Facilities Maintenance Personnel Certification Program Performance Examinations is the FAA Academy AF Training Bulletin Board located on the FAA Information Superhighway for Training (FIST).

2. If you do not have access, contact, AMA-405, at (405) 954-8781, your program support specialist, or local network administrator to obtain the required special client software and instructions. AMA-405 will supply the necessary user log on.

3. User requirements for FIST:

   a. Computers with a modem and/or TCP/IP connectivity to an existing LAN.

   b. Client software supplied by the FAA Academy to the user.

   c. A valid logon to FIST supplied by the FIST administrator.

   NOTE: FIST client software can be obtained from your local network administrator, PSS, or from the FIST administrator. After installing the client software, call the FIST administrator, AMA-405 at (405) 954-8781 for a sign on and/or installation help. Due to continuing updates and changes in client software, written installation and operational procedures are not published in this document. All inquiries should be directed to FAA Academy, AMA-405, at (405) 954-8781.

APPENDIX 7. RECORD OF CHANGES TO APPENDICES 3 THROUGH 6

1. The figure contained in appendix 7 is issued with this order. The most current official figure is located on the FAA Academy AF Training Bulletin Board and is available for review and downloading. This electronic accessibility provides the user with the most current information available (see note below).

2. Figure 1 of this appendix is a chronological history of all changes made to appendices 3 through 6 after the date of this order.

> **NOTE**: Any additions, deletions, or corrections to this appendix shall be forwarded to AFZ-100, through the appropriate regional AF division AXX-400, training representative. No additions, deletions, or corrections will be posted without prior approval from the FAA Headquarters AF Training Division. Upon approval, this information will be added to appendix 7. This appendix will be maintained and updated by AMA-405 and made available for downloading via the FAA Academy AF Training Bulletin Board. The appendices listed on the FAA Academy AF Training Bulletin Board shall be the official source for Order 3400.3.

3. The appendices will be reviewed monthly and updated as required. A new revision date shall be added to the appendix. The file names to be used shall be as follows:

APPENDIX	FILENAME	EXTENSION
Appendix 7	APP7-038	.doc

(Filename shows the latest revision date; i.e., "03" indicates the month and "8" indicates the year.)

APPENDIX 7. RECORD OF CHANGES TO APPENDICES 3 THROUGH 6 (Continued)

Figure 1. History of Appendix Changes

Date	Appendix No.	Figure No.	Change